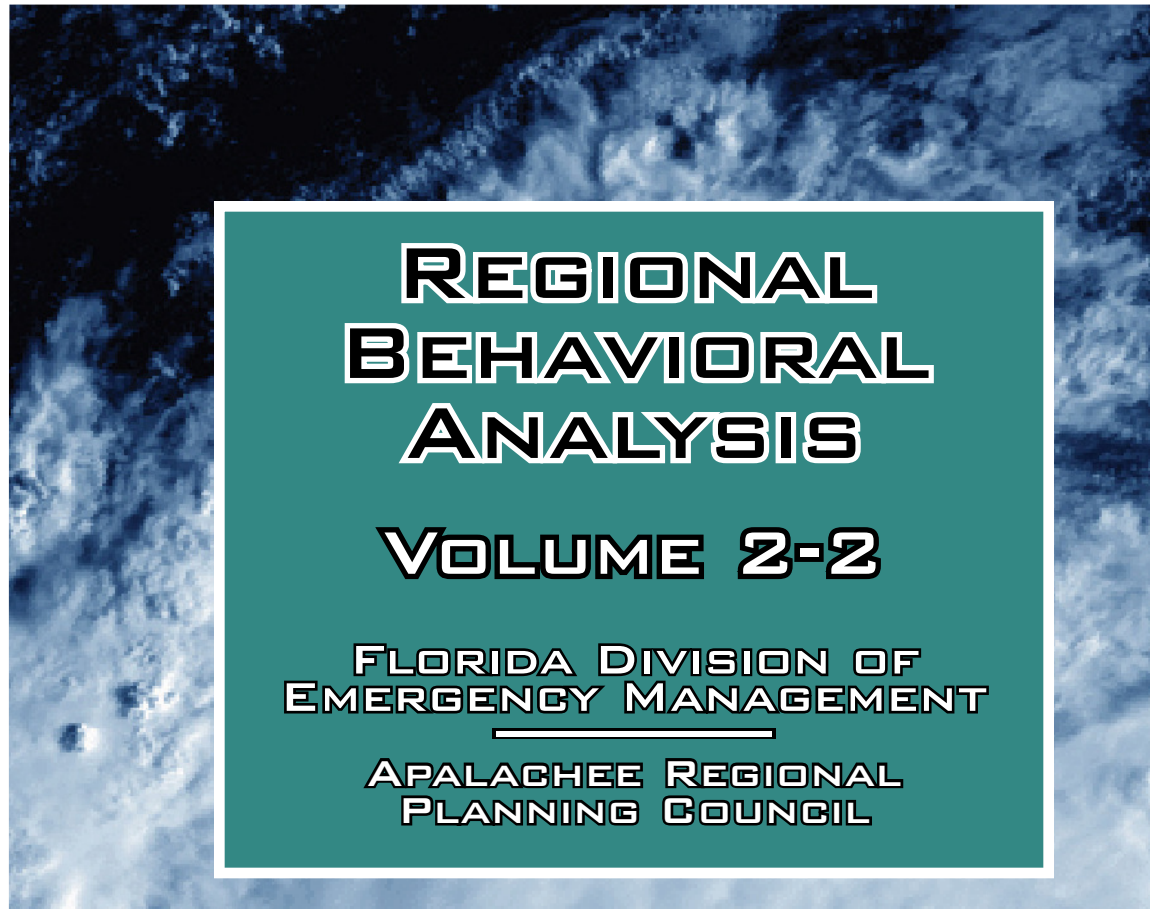
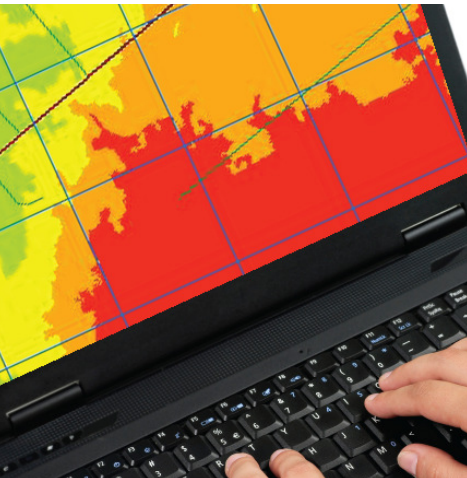




FLORIDA STATEWIDE REGIONAL EVACUATION STUDY PROGRAM



REGIONAL BEHAVIORAL ANALYSIS

VOLUME 2-2

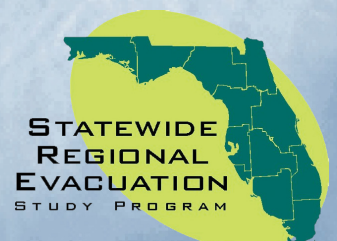
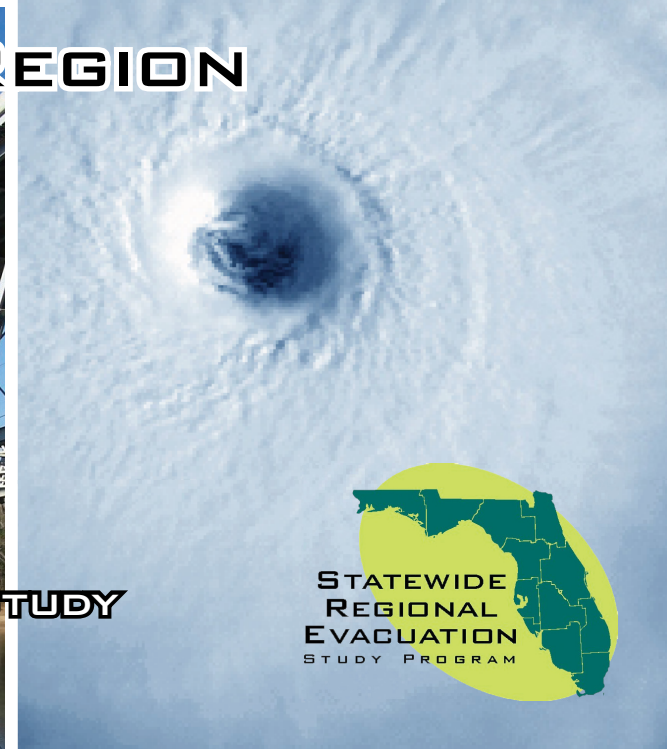
FLORIDA DIVISION OF
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APALACHEE REGIONAL
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Volume 2-2

Regional Behavioral Analysis

Apalachee Region

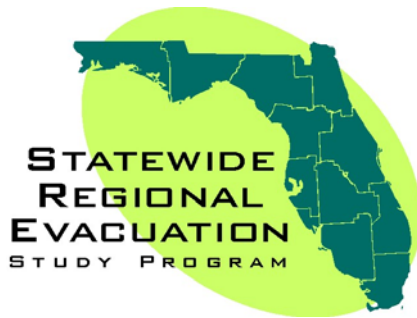
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REGIONAL BEHAVIORAL ANALYSIS

I. Introduction

A study was conducted to provide guidance in selecting behavioral assumptions to be used in evacuation transportation modeling and shelter planning. For residents the process included telephone interviews with residents of the region and analysis of that and other data to derive indications of how the population would respond in the event of certain threats, most notably hurricanes. The Statewide Regional Evacuation Study (SRES) survey data was used in conjunction with data from previous evacuation surveys to derive probable behaviors to be used as planning assumptions. For tourists planning assumptions were based on generalizations about tourist behavior in hurricane evacuations derived from previous studies. SRES transportation and shelter analyses might employ behavioral assumptions that differ from those found in this document.

Planning assumptions were developed for five evacuation behaviors:

- **Evacuation rate** – the percentage of people who will leave their home (residents) or accommodation (vacationers) to go someplace safer in response to a hurricane threat
- **Out-of-county trips** – Percent of evacuating households (residents) or parties (vacationers) who will travel to destinations out of their county of residence (residents) or accommodation (vacationers)
- **Type of refuge** – Percent of evacuating households (residents) or parties (vacationers) who will seek refuge in public shelters, the homes of friends and relatives, hotels and motels, and other locations such as churches and workplaces. For vacationers their own residence constituted an additional type of refuge.
- **Percent of available vehicles** – Vehicles that will be used by evacuating households (residents) or parties (vacationers) as a percentage of the total number of vehicles available in the household that could be used
- **Evacuation timing** – Percent of total evacuating households (residents) or parties (vacationers) who will leave their homes (residents) or accommodations (vacationers) at various times, with respect to when an evacuation notice is issued by public officials.

II. Methods

A. Data Collection and Sample Sizes

To support the behavioral analysis for residents, telephone interviews were conducted by Kerr & Downs Research with 2,150 residents of the Apalachee Region – 400 in each of the coastal counties, with the exception of Jefferson County for which 200 interviews were conducted due to its small surge and vulnerable permanent population. One hundred and fifty interviews were conducted in each non-coastal county. More interviews were done in coastal counties so that distinctions could be made among hurricane evacuation zones within the coastal counties. The 400 interviews in coastal counties were allocated among evacuation zones after consultation with county emergency management officials in each county. Sample sizes, also broken down according to whether the respondent lived in a site built or a mobile home (including manufactured homes), are shown in Table 1 below. The total in Table 1 excludes respondents whose residence could not be identified as site built or mobile home.

Table 1
Sample Sizes for Counties in the Apalachee Region

County	Site Built Homes	Mobile Homes	Total Homes
Franklin Cat 1	89	8	97
Franklin Cat 2-5	221	75	296
Gulf Cat 1	93	7	100
Gulf Cat 2-3	130	19	149
Gulf Cat 4-5	33	17	99
Jefferson Cat 1-5	28	16	44
Jefferson Non-surge	114	41	155
Wakulla Cat 1	147	50	197
Wakulla Cat 2-5	137	63	200
Calhoun (Non-coastal)	118	32	150
Gadsden (Non-coastal)	123	25	148
Jackson (Non-coastal)	112	35	147
Leon (Non-coastal)	144	3	147
Liberty (Non-coastal)	104	45	149
TOTAL	1665	463	2128

Some questions in the survey were asked of only a portion of the sample. For example, only respondents who were living in their county of residence in 2005 were asked about their response during Hurricane Dennis. Only those who left their homes to go someplace safer during Dennis were asked where they went when they left their homes. Therefore, for certain questions, sample sizes were smaller than the figures shown in Table 1.

Other surveys with the public have been conducted in the region with respect to hurricane evacuation. The first was completed in 1983, in support of the first evacuation study done

in the region, before evacuation zones were initially established. Another was performed in 1994 in support of an update to the regional evacuation study. Sample sizes in both the 1983 and 1994 surveys were significantly smaller than that of the SRES.

B. Questionnaire

Questions used in the telephone interviews were developed for use statewide as part of the SRES. They were supplemented by questions submitted by the Regional Planning Council on behalf of counties in the region. Most questions in the survey dealt with hurricane evacuation:

- Information sources
- Perceived vulnerability
- Evacuation intentions
- Obstacles to evacuation
- Evacuation behavior in past hurricane threats
- Demographics

In addition to the hurricane questions, a portion of respondents in each county were asked questions about evacuation in freshwater flooding, hazardous material accidents, wildfires and nuclear power plant accidents.

Responses to all questions in the survey and a copy of the questionnaire are included in *Volume 3 - Apalachee Regional Behavioral Survey Report*, prepared by Kerr & Downs Research, including a copy of the questionnaire.

C. Use of Survey Findings

Responses to individual survey questions alone are not usually good indicators of how residents will respond in actual threats. A mix of the following indicators was used in deriving behavioral assumptions to use in planning:

- Intended responses
- Responses in past threats
- Responses in past threats in other locations
- Factors usually correlated with actual response

1. Intended Responses

Some of the survey questions asked respondents what they would do in certain situations – whether they would evacuate, where they would go and so forth. Answers to those questions constitute intended responses and they provide a very straightforward indication of behavior. Unfortunately, intended responses often do not match actual responses. That is, people often don't do what they said they would do. In some cases there are statistical adjustments to intended responses that result in much closer matches to actual behavior. For example, in most locations actual use of public shelters is only about half the level indicated by intended response surveys.

2. Actual Responses

A number of survey questions asked interviewees how they responded in past hurricane threats. Depending on their county, survey participants in the Apalachee Region were asked about their evacuation behavior in three of the following hurricanes: Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina and Opal. An earlier survey in the region had provided actual response data about Hurricane Elena. Responses in past threats can be good predictors of future response, but only if the past threats are similar to future threats. For most counties in the Apalachee Region past threats from the above storms were not as serious as threats that could be posed by future storms. Therefore, the evacuation participation rates observed in those storms are not good indicators of what it is reasonable to plan for in future threats. For other behaviors such as type of refuge and destination, past responses can be compared for consistency from one evacuation to another and can be used as a comparison with intended responses.

3. Past Response in Other Locations

Although all places are different, responses and patterns observed in one set of locations are often good indicators of what can occur elsewhere when conditions are similar. This is particularly useful when planning for threats for which there is no reliable response data for similar threats for the region. As part of the SRES, 12 different hurricane threats were asked about in one county or another. In addition, public response has been documented in many other hurricane threats both in and out of Florida, some of which are relevant to planning in the Apalachee Region. For example, in the great majority of evacuations fewer than 15% of evacuees leave on their own, prior to an evacuation notice being issued by public officials. Due to the consistency of that finding, it is reasonable to apply it to the Apalachee Region counties.

4. Statistical Predictors

Data from other hurricane evacuation surveys, like those described above have been analyzed statistically to identify factors that have been correlated with evacuation behavior. Certain variables have been found to predict actual response better than others. For example, perceived vulnerability, actual vulnerability (e.g., evacuation zone), housing type and hearing evacuation orders are all good predictors of whether residents will evacuate. The SRES survey measured perceived vulnerability, evacuation zone, housing type and expectation of being told to evacuate, and those factors were combined to provide an indication of whether interviewees would evacuate in certain storm threats, from certain locations and from certain types of housing. Other variables were used to provide an indication of other evacuation behaviors.

5. Combining Information

There is no simple one-rule-fits-all technique for using the above information in deriving behavioral assumptions for planning. The best solution is to employ the best available mix of indicators, relying most heavily on the best information available for each

behavior and scenario in question, for a particular county and storm threat. When good, reliable actual response information was available for a certain storm threat scenario, it was relied on more than other types of information. When actual response information was lacking, a combination of intended response, trends from other locations and application of predictor variables was used.

D. Sample Size Considerations

SRES survey statistics were derived from the sample described previously (section II.A. above). The sample provides an estimate of values for the population of people from which the sample was drawn. For example, a sample of Gulf County residents was interviewed for the purpose of estimating how the larger population of Gulf County residents would respond to the same questions.

The sampling plan used in the SRES survey was designed to provide statistically useful county-level data, given budgetary constraints. However, sample estimates become less reliable statistically when the responses are disaggregated, as they were in the analyses conducted as part of the SRES. When responses are broken down by evacuation zone within a county and then by housing type, population-level differences among zones and between housing types are not always as large as they might appear in the sample. This is because sampling error increases when sample size decreases. Therefore, differences in the sample might not be large enough to support a conclusion that similar differences exist in the population from which the sample was selected, due to sampling error.

Aggregating results across counties helps overcome zonal and housing disaggregation problems. However, county variations – if they exist – are masked when results are aggregated at the regional level. The analysis looked at survey results at both the county and regional levels, relying on county-level data to the extent that sample sizes justified that level of analysis, but relying more on regional data when county-level sample sizes were too small.

This is especially true for actual response data. Many SRES respondents were not living in their current county when past storm threats occurred, so they were not asked about their response in those storms. If a resident was living in the area at the time but did not evacuate, that person could not be asked where he or she went (e.g., public shelter, out-of-county). Therefore, for certain actual response questions, regional statistics were more meaningful than county statistics.

III. Planning Assumptions for Residents

A. Organization of Tables

Planning assumptions for residents are shown in Appendix A. Appearing below each table there is a brief description of the content of the table. At the beginning of the appendices there is an explanation of how to read the tables.

1. Coastal Counties

For each coastal county there are 14 tables:

1. Evacuation rate for site-built homes
2. Out-of-county trip rates for site-built homes
3. Percent of available vehicles to be used by site-built homes
4. Public shelter use rates for site-built homes
5. Friend and relative use rates for site-built homes
6. Hotel and motel use rates for site-built homes
7. Other refuge use rates for site-built homes
8. Evacuation rate for site-built homes
9. Out-of-county trip rates for mobile and manufactured homes
10. Percent of available vehicles to be used by mobile and manufactured homes
11. Public shelter use rates for mobile and manufactured homes
12. Friend and relative use rates for mobile and manufactured homes
13. Hotel and motel use rates for mobile and manufactured homes
14. Other refuge use rates for mobile and manufactured homes

In each table for coastal counties there are planning assumptions for six evacuation zones:

1. Areas needing to evacuate due to storm surge flooding from category 1 hurricanes
2. Areas needing to evacuate due to storm surge flooding from category 2 hurricanes
3. Areas needing to evacuate due to storm surge flooding from category 3 hurricanes
4. Areas needing to evacuate due to storm surge flooding from category 4 hurricanes
5. Areas needing to evacuate due to storm surge flooding from category 5 hurricanes
6. Areas not needing to evacuate due to storm surge flooding from hurricanes

Zones were defined relative to zones currently used by each county. In instances where counties currently aggregate zones the planning assumptions were interpolated for intermediate zones. For example, if a county used zones 1-2, 3, and 4-5, trends across those zones were used to specify assumptions for zones 1, 2, 3, 4 and 5.

2. Non-coastal Counties

For each non-coastal county there are seven tables. Data for site built homes and mobile or manufactured homes are shown in the same tables for non-coastal counties because there are no surge-related evacuation zones. The tables for non-coastal counties are:

1. Evacuation rate for site built homes and mobile or manufactured homes

2. Out-of-county trip rates for site built homes and mobile or manufactured homes
3. Percent of available vehicles to be used by site built homes and mobile or manufactured homes
4. Public shelter use rates for site built homes and mobile or manufactured homes
5. Friend and relative use rates for site built homes and mobile or manufactured homes
6. Hotel and motel use rates for site built homes and mobile or manufactured homes
7. Other refuge use rates for site built homes and mobile or manufactured homes

Within each table planning assumptions are provided for category 1, 2, 3, 4 and 5 hurricanes.

B. Working Data Tables

Responses for all survey questions are included in the Survey Data Report prepared by Kerr & Downs Research. In deriving planning assumptions, responses to certain questions are more important than others, and they are used more effectively if organized differently than as they appear in the Survey Data Report. The most salient variables from the survey were put into working data tables for use in supporting the derivation of planning assumptions and the tabulations appear as Appendix B. There is an appendix for each coastal county, a combined appendix for the non-coastal counties and an appendix for the entire region.

The tabulations include responses to questions about perceived vulnerability, intended response, and actual response in past hurricane threats. The tables are arrayed to facilitate inspection of responses most relevant to derivation of specific planning assumptions (evacuation rate, destinations, refuge, vehicles). If there were too few responses to a question for the data to be statistically useful, cells in tables were left blank (with a hyphen in the cell). In other cases in which the sample size is particularly small, the sample size is shown in parentheses (e.g., n=15). The tables in the working data table appendices are not intended to be replacements for the more complete description of the survey data included in the Survey Data Report. Readers should refer to the Survey Data Report for a more thorough understanding of the questions used to generate the background data tables.

The regional aggregation of background data is more reliable statistically due to the larger sample size, particularly for actual response data and when looking at responses separately by zone or housing type. County data was used to differentiate planning assumptions among counties when differences were large enough to warrant differentiation.

C. Evacuation Rates

Evacuation rates refer to the percentage of people who will leave their homes to go someplace safer during a hurricane threat. This is a critical variable for planning because it drives the number of vehicles on the roadways during an evacuation. Responses will vary even for hurricanes of the same intensity, depending on how great

the threat appears to be to one's specific location and other factors. Evacuation rates on the periphery of warning areas tend to be lower than in areas closest to the projected path of a threatening storm. A strong category 4 hurricane which has maintained its intensity for a day or more prior to landfall will elicit greater response than one which intensifies from a 2 to a 4 just six hours prior to landfall or one which weakens from a 4 to a 2 twelve hours prior to landfall. Both media attention and actions by public officials will vary from one strong category 4 hurricane to another due to similar considerations. A large category 4 storm will receive greater attention from media and officials than a small category 4 storm (e.g., Floyd, "Andrew's Big Brother"). Actions by public officials have a great impact on evacuation rate. People are much more likely to evacuate, especially in strong storms, when they believe they have been ordered to evacuate than when they believe they have received a recommendation to evacuate or have not been told at all whether they should evacuate. A problem is that many people (often 30% in category 1 evacuation zones) fail to hear, comprehend or believe that evacuation orders apply to them. The methods and aggressiveness used to disseminate evacuation notices affect evacuation rates.

The planning assumptions for evacuation rates are the *maximum probable rates*. They assume that a threatening storm of a given category poses its greatest threat to each county. That is,

1. The storm's forecast track is over the county early and throughout at least a full day of the threat.
2. The storm has been at the specified intensity for at least a day of the threat and remains at that intensity until landfall.
3. The storm makes landfall in the county.

These conditions are not met very often, and recent threats in the Apalachee Region have not generated evacuation rates as high as those in some of the planning assumptions. In fact in the 12 storms asked about in one county or another as part of the SRES the highest evacuation rates observed for site built homes in the category 1 evacuation zone in any county was 80% (Santa Rosa in Ivan and Nassau in Floyd). But evacuation rates over 90% have been documented in other threats (e.g., Escambia in Frederic, parts of Pinellas in Elena, most of coastal Georgia and southern South Carolina in Floyd, and Galveston, Texas in Rita).

Applying the county planning assumptions to the entire region overstates evacuation rate for the region, because not every county in the region will meet the conditions. However, one doesn't know in advance the county to which they will apply, if any.

The planning assumptions assume that officials issue mandatory evacuation orders for surge-related evacuation zones for hurricanes of corresponding intensities (e.g., everyone in the category 1 evacuation zone is ordered to evacuate in a category 1 hurricane). It also assumes that all mobile homes and residents of manufactured housing are ordered to evacuate for hurricanes of all intensities.

The planning assumptions include shadow evacuation – people leaving from areas and structures not ordered by officials to evacuate. These assumptions can add substantially

to the total number of people evacuating and generating shelter demand, but the phenomenon exists, particularly when conditions such as those enumerated above apply (storm is forecast for an extended period to strike the county, maintains its intensity, and makes landfall in the county). One reason that shadow evacuation occurs is that many people have misconceptions about their vulnerability (see Appendix B).

D. Out-of-County Trips

Many evacuees go farther than necessary to reach safety, and the planning assumptions indicate the percentage of evacuees who will go to destinations outside their own county. The Survey Data Report lists the actual destination (i.e., city) where intended evacuees said they would go and where actual evacuees have gone in the past, if they said they would go or went beyond their own neighborhoods. Going out-of-county can increase evacuation clearance times but has occurred in the past and will in the future until officials are more successful at dissuading evacuees from doing so. Very few out-of-county evacuees seek refuge in public shelters. The great majority of evacuees go to the homes of friends and relatives or to hotels and motels.

E. Type of Refuge

There are separate tables for the percentage of evacuees who will go to public shelters, the homes of friends and relatives, hotels and motels and other types of refuge (such as churches, workplaces, and second homes). Survey respondents tend to overstate their likelihood of using public shelters and understate their likelihood of going to the homes of friends and relatives. Actual refuge use is the best indicator, but only if the number of evacuees in the survey are sufficient to provide statistically reliable estimates. Planning assumptions for the counties reflect a reduced value of the intended public shelter use figures unless actual response values were consistent with the intended behavior. The ability of evacuees to actually go to their intended refuge or to the places they have gone in the past will depend of the availability of those refuges in future threats.

F. Percent of Available Vehicles

Many evacuating households tend to take only a portion of the vehicles available to them, mainly to avoid separating the family more than necessary. The planning assumptions indicate the percentage of vehicles available to households that will be used in an evacuation. The Survey Data Report includes the number of vehicles available to evacuating households and the number they would take. The percent-of-available figures are derived from those data. Although planners could use the number of vehicles per household from the SRES survey and reported in the Survey Data Report, census data should provide better statistical estimates of the number of vehicles available to households, to which the percent-of-available multipliers can be applied. The SRES survey asked only about intended vehicle use, but a large number of post-storm surveys have asked about actual vehicle use, and the intended use figures tend to match the actual use figures well.

G. Evacuation Timing

Not all evacuees leave at the same time. Some leave before public officials issue evacuation notices, some leave very soon following issuance of evacuation notices, and some wait until shortly before they expect the threatening storm to arrive.

1. Evidence from Past Evacuations

Many surveys documenting response following hurricane evacuations have asked evacuees to indicate the time and date when they departed their homes. The responses have been graphed to depict cumulative evacuation curves. The curves show how the evacuation (on the y-axis) grew over time (on the x-axis), typically with a few people leaving early and then increasing to the point at which 100% of the evacuees had eventually departed. The curves indicate when vehicles enter the evacuation network as evacuating vehicles, not when they reached their destinations or when they made other trips in the network prior to evacuating.

In general a graph of when evacuees depart often looks like the letter "S." In some evacuations the "S" is compressed laterally (i.e., over time) to appear thin and upright. Those curves occur when all departures occur in a relatively short period of time. They usually happen when evacuation notices were not issued early enough due to an unexpected change in a storm's track, forward speed, or intensity. By the time evacuation notices are issued, little time remains before anticipated landfall, so evacuees leave with a sense of urgency corresponding to the threat. This would be referred to as a relatively "fast" or "quick" response.

In other evacuations the "S" is stretched laterally and covers more of the length of the line on which it appears, with departures being distributed over a longer length of time. In those cases evacuation notices were issued well in advance of anticipated landfall of the storm, and residents were aware that they had the luxury of waiting longer before departing if they choose to do so. Some evacuees do wait longer before leaving, but not all do. Departures are distributed over a longer period of time than in the first example. This might be referred to as a "slow" response.

There are also evacuation timing curves that fall between those two, resulting in an "S" that is less compressed than the first, but less stretched than the second. This sort of evacuation results when evacuation notices are issued earlier than in the first example, but not as early as in the second case.

In all three scenarios evacuees collectively take as much time as they believe is available to them. Perceptions about the urgency of the evacuation account for variations in whether the evacuation is "quick," "slow," or in between ("normal").

2. Planning Curves

The three evacuation timing scenarios described above are depicted graphically in Figure 1, reflecting the three versions of the letter "S." The slowest of the three curves assumes that evacuation notices were issued at least 24 hours before landfall. The fastest of the three assumes that evacuation notices were issued just 12 hours prior to the anticipated arrival of hurricane conditions.

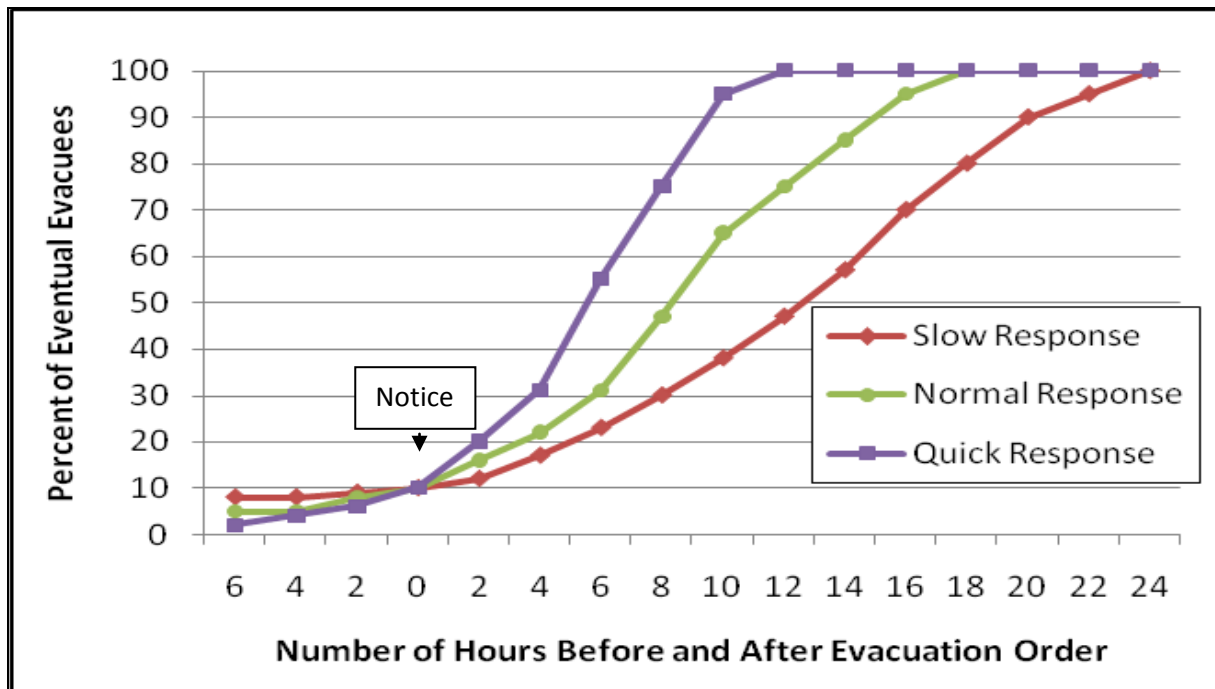


Figure 1: Evacuation Timing Curves for Planning

3. Variations in Curves

The haste in which evacuees depart is mainly a function of the perceived urgency of leaving sooner rather than later. Variations from storm to storm are usually a function of forecasts. If a forecast changes to indicate that landfall will occur sooner than previously anticipated, more people will start leaving. If intensity of a storm increases, indicating that additional areas of a community need to evacuate, departures from those areas will increase. These changes influence public response primarily through evacuation notices and instructions provided by local officials. Officials can significantly affect the distribution of departures by when they issue evacuation notices and how they word the notices and related announcements.

In each threat scenario occupants of less vulnerable areas (e.g., inland) will tend to wait longer to evacuate than those living in more hazardous locations (e.g.,

beaches). Variation in the curves is a function of variation in the perceived urgency of evacuating promptly, not demographics.

People prefer not to evacuate at night but will do so if necessary. Examples of night evacuations include Hurricanes Eloise, Elena and Opal. Relatively few people leave prior to the issuance of evacuation notices by officials. People are willing to leave before watches and warnings are posted by the National Hurricane Center if asked to do so by local officials.

4. Actual Response Curves

Respondents to the SRES survey were not asked when they departed in past evacuations because too much time had passed between the evacuations and the interviews to trust the accuracy of recollections. The questions would also have made the interviews unacceptably lengthy. There are ample actual response curves that have been documented in other surveys.

a. Two-day Evacuations

If officials issue evacuation notices more than 24 hours prior to anticipated landfall, evacuation departures will be distributed over a period longer than 24 hours. Some evacuees will leave shortly after the evacuation notice during daylight hours, then departures will essentially stop on the evening of the first day, and then resume on the morning of the second day.

Most of the recent evacuations in Florida and elsewhere have taken place over a period of more than 24 hours. This has been the result of evacuation notices having been issued more than 24 hours prior to arrival of the storms. Curves were constructed for 11 different coastal regions during Hurricane Floyd, for example, including four regions in Florida and all 11 curves were distributed over more than a 24-hour period. All four of the major hurricanes which impacted Florida in 2004 (Charley, Frances, Ivan and Jeanne) had evacuations that spanned more than 24 hours. Evacuation departures during Hurricane Katrina in Mississippi and Louisiana and Hurricane Rita in Texas in 2005 occurred over a period of two days or more. The same was true of Hurricanes Bertha and Fran in South Carolina in 1996, Hurricane Georges in Florida in 1998, Hurricane Lili in Texas and Louisiana in 2002 and Hurricane Isabel in Virginia and Maryland in 2003.

b. One-day Evacuations

The prevalence of two-day evacuations stems from good forecasts and a precautionary approach by public safety officials, particularly in stronger storms. If the National Hurricane Center goes forward with plans to extend the lead times for Hurricane Watches and Warnings by 12 hours, early issuance of evacuation notices will probably continue.

However, good early forecasts won't always be the case, or for other reasons evacuations notices won't be issued early enough to afford the luxury of having two days in which to evacuate. In those instances evacuations in certain areas will need to be rushed to completion following issuance of evacuation notices, and the duration of evacuations will be less than two days. If the goal of clearance time calculations is to estimate the minimum amount of time necessary to complete an evacuation safely, response curves of shorter duration than two days should be assumed.

The quickest of the one-day curves assumes that all evacuees depart within 12 hours of an evacuation notice being issued, with just 10% having left prior to the evacuation notice. Examples of approximately 12-hour response curves occurred in Broward and Miami-Dade Counties during Hurricane Andrew in 1992, in Pinellas County during Hurricane Elena in 1985 and in Escambia County during Hurricane Frederic in 1979. Storms in which evacuation departures were distributed over a 12 to 18 hour period occurred during Hurricane David in Miami-Dade County in 1979 and Hurricane Opal in northwest Florida in 1995. The evacuation during Hurricane Eloise in northwest Florida in 1975 is a rare example of evacuation departures occurring over a period of just six hours, but in some locations as little as 45% of the public evacuated.

IV. Planning Assumptions for Vacationers

Compared to residents, there is relatively little data documenting how vacationers respond to hurricane threats, and no SRES survey was conducted with vacationers to ascertain their intentions. Recommendations for behavioral assumptions for tourists are derived from intended-response survey findings with visitors to other locations and from existing data on how vacationers have responded in other locations, including the Carolinas.

A. Evacuation Rates

There is no evidence that vacationers are reluctant to evacuate when a hurricane interrupts their visit to a coastal community. Based on observations of vacationer behavior in other locations and surveys in other locations concerning intended responses, it is reasonable to assume that 90% to 95% of vacationers will evacuate their accommodations *if evacuation orders are issued*.

B. Types of Refuge

Officials sometimes report a large number of vacationers in public shelters, but they represent a very small percentage of the total visitor population. Fewer than 5% of the evacuating vacationers will go to public shelters. Between 25% and 50% will seek inland hotels and motels. The remainder will return home or stay with friends and relatives in Florida, although the number returning home will depend on the distances traveled by tourists from home. Those most likely to return home live within a one-day drive of where they vacation.

C. Destinations

Up to 5% of tourist evacuees will stay within the county where their vacation accommodations were located or go to a nearby county to use a public shelter. At least half will go elsewhere in Florida to continue their vacation or wait out the storm. Up to half will return home, if they live within a one-day drive.

D. Vehicle Use

The great majority of tourists have a vehicle available to them when on vacation, often their own. Virtually all of the vehicles will be used in evacuating, either to other tourist destinations, home, or airports.

E. Evacuation Timing

Tourists leave at least as early as residents. The same curves used for residents should be used for tourists, unless officials order vacationers to evacuate earlier.



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APPENDIX A

Planning Assumptions



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Planning Assumption Tables

Columns

Columns in tables represent threats posed by category 1, 2, 3, 4 and 5 hurricanes.

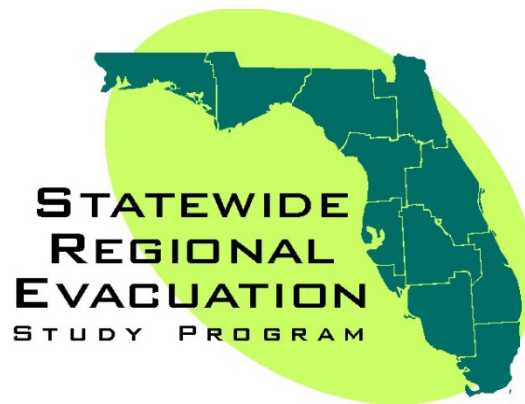
Rows

Rows in tables represent evacuation zones based on anticipated storm surge inundation: i.e., areas for which officials would issue evacuation notices due to the threat of storm surge and waves generated by category 1, 2, 3, 4 and 5 hurricanes. The sixth row in tables represents areas inland of the reach of storm surge inundation. Evacuation notices in inland areas (sixth row of tables) would apply only to mobile homes and manufactured housing.

Cells

Cells in tables represent the evacuation behavior of residents living in the respective evacuation zone when faced with each of the five hurricane threats, e.g., response in a category 3 hurricane by residents living in a category 1 surge evacuation zone. All figures are percentages -- either percent of residents in the zone, percent of evacuees from the zone or percent of available vehicles.

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Calhoun County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built or Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	5	10	20	25	30
Mobile and Manufactured Homes	50	55	65	75	85

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer in each storm threat scenario. Figures assume that evacuation will be recommended for mobile and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 2. Out-of-County Trip Rates for Residents in Site Built or Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	65	65	65	65	65
Mobile and Manufactured Homes	35	35	45	50	50

Out-of-county trip rate indicates the percent of evacuees who will seek refuge outside their own county of residence.

Table 3. Vehicle Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Vehicle Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	75	75	75	75	75
Mobile and Manufactured Homes	70	70	70	70	70

Vehicle use rate indicates of percentage of vehicles available to the evacuating household that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	10	10	10	10	10
Mobile and Manufactured Homes	15	15	15	15	15

Public shelter use rate indicates the percent of evacuees who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	55	55	55	55	55
Mobile and Manufactured Homes	55	55	55	55	55

Friend/relative use rate indicates the percent of evacuees who will seek refuge at the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

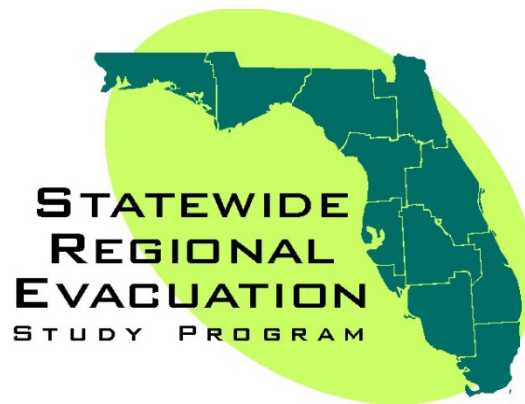
Hotel/Motel Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	20	20	20	20	20
Mobile and Manufactured Homes	10	10	10	10	10

Hotel/motel use rate indicates the percent of evacuees who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	10	10	10	10	10
Mobile and Manufactured Homes	15	15	15	15	15

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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Franklin County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built Homes

Evacuation Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	55	65	80	90	95
Cat 2 Surge Evacuation Zone	45	55	70	85	90
Cat 3 Surge Evacuation Zone	20	25	65	80	90
Cat 4 Surge Evacuation Zone	10	20	55	75	85
Cat 5 Surge Evacuation Zone	10	10	35	45	75
Inland of Surge Evacuation Zones	5	5	10	15	20

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated. Shaded cells indicate shadow evacuation – evacuation from areas not included in evacuation notices.

Table 2. Out-of-County Trip Rates for Residents in Site Built Homes

Out-of-County Trip Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	90	90	90	90	90
Cat 2 Surge Evacuation Zone	85	85	85	85	85
Cat 3 Surge Evacuation Zone	85	85	85	85	85
Cat 4 Surge Evacuation Zone	85	85	85	85	85
Cat 5 Surge Evacuation Zone	85	85	85	85	85
Inland of Surge Evacuation Zones	85	85	85	85	85

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each storm threat scenario.

Table 3. Vehicle Use Rates for Residents in Site Built Homes

Vehicle Use Rate	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	85	80	80	80	80
Cat 2 Surge Evacuation Zone	85	80	80	80	80
Cat 3 Surge Evacuation Zone	85	80	80	80	80
Cat 4 Surge Evacuation Zone	85	80	80	80	80
Cat 5 Surge Evacuation Zone	85	80	80	80	80
Inland of Surge Evacuation Zones	85	80	80	80	80

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use rates for Residents in Site Built Homes

Shelter Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	2	2	2	2	2
Cat 2 Surge Evacuation Zone	5	5	5	5	5
Cat 3 Surge Evacuation Zone	5	5	5	5	5
Cat 4 Surge Evacuation Zone	5	5	5	5	5
Cat 5 Surge Evacuation Zone	5	5	5	5	5
Inland of Surge Evacuation Zones	5	5	5	5	5

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built Homes

Friend/Relative Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	50	50	50	50	50
Cat 2 Surge Evacuation Zone	50	50	50	50	50
Cat 3 Surge Evacuation Zone	50	50	50	50	50
Cat 4 Surge Evacuation Zone	50	50	50	50	50
Cat 5 Surge Evacuation Zone	50	50	50	50	50
Inland of Surge Evacuation Zones	50	50	50	50	50

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built Homes

Hotel/Motel Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	25	25	25	25	25
Cat 2 Surge Evacuation Zone	25	25	25	25	25
Cat 3 Surge Evacuation Zone	25	25	25	25	25
Cat 4 Surge Evacuation Zone	25	25	25	25	25
Cat 5 Surge Evacuation Zone	25	25	25	25	25
Inland of Surge Evacuation Zones	25	25	25	25	25

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built Homes

Other Refuge Use Rates	Storm Threat Scenario				
Site-built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	23	23	23	23	23
Cat 2 Surge Evacuation Zone	20	20	20	20	20
Cat 3 Surge Evacuation Zone	20	20	20	20	20
Cat 4 Surge Evacuation Zone	20	20	20	20	20
Cat 5 Surge Evacuation Zone	20	20	20	20	20
Inland of Surge Evacuation Zones	20	20	20	20	20

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.

Table 8. Evacuation Rates for Residents in Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	65	70	80	90	100
Cat 2 Surge Evacuation Zone	65	70	80	90	100
Cat 3 Surge Evacuation Zone	65	70	75	80	95
Cat 4 Surge Evacuation Zone	60	65	75	75	95
Cat 5 Surge Evacuation Zone	60	65	70	75	95
Inland of Surge Evacuation Zones	60	65	70	75	90

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 9. Out-of-County Trip Rates for Residents in Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	80	80	80	80	80
Cat 2 Surge Evacuation Zone	80	80	80	80	80
Cat 3 Surge Evacuation Zone	80	80	80	80	80
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	80	80	80	80	80

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each storm threat scenario.

Table 10. Vehicle Use Rates for Residents in Mobile and Manufactured Homes

Vehicle Use Rate	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	80	80	80	80	80
Cat 2 Surge Evacuation Zone	80	80	80	80	80
Cat 3 Surge Evacuation Zone	80	80	80	80	80
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	80	80	80	80	80

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 11. Public Shelter Use Rates for Residents in Mobile and Manufactured Homes

Shelter Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	8	8	8	8	8
Cat 2 Surge Evacuation Zone	8	8	8	8	8
Cat 3 Surge Evacuation Zone	8	8	8	8	8
Cat 4 Surge Evacuation Zone	8	8	8	8	8
Cat 5 Surge Evacuation Zone	8	8	8	8	8
Inland of Surge Evacuation Zones	8	8	8	8	8

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 12. Friend/Relative Refuge Use Rates for Residents in Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	60	60	60	60	60
Cat 2 Surge Evacuation Zone	60	60	60	60	60
Cat 3 Surge Evacuation Zone	60	60	60	60	60
Cat 4 Surge Evacuation Zone	60	60	60	60	60
Cat 5 Surge Evacuation Zone	60	60	60	60	60
Inland of Surge Evacuation Zones	60	60	60	60	60

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 13. Hotel/Motel Refuge Use Rates for Residents in Mobile and Manufactured Homes

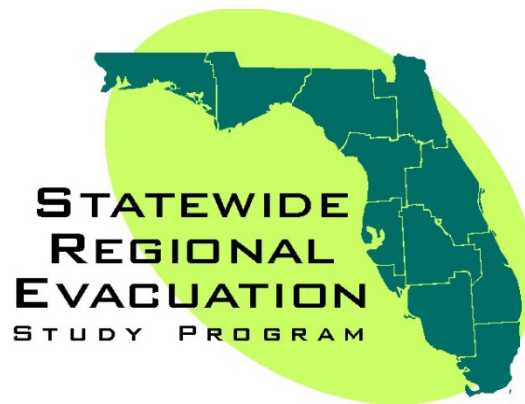
Hotel/Motel Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	20	20	20	20	20
Cat 2 Surge Evacuation Zone	20	20	20	20	20
Cat 3 Surge Evacuation Zone	20	20	20	20	20
Cat 4 Surge Evacuation Zone	20	20	20	20	20
Cat 5 Surge Evacuation Zone	20	20	20	20	20
Inland of Surge Evacuation Zones	20	20	20	20	20

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 14. Other Refuge Use Rates for Residents in Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	12	12	12	12	12
Cat 2 Surge Evacuation Zone	12	12	12	12	12
Cat 3 Surge Evacuation Zone	12	12	12	12	12
Cat 4 Surge Evacuation Zone	12	12	12	12	12
Cat 5 Surge Evacuation Zone	12	12	12	12	12
Inland of Surge Evacuation Zones	12	12	12	12	12

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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APPENDIX A-3

Gadsden County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built or Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	10	15	20	25	30
Mobile and Manufactured Homes	50	55	70	80	85

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer in each storm threat scenario. Figures assume that evacuation will be recommended for mobile and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 2. Out-of-County Trip Rates for Residents in Site Built or Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	45	45	45	45	45
Mobile and Manufactured Homes	65	65	65	65	65

Out-of-county trip rate indicates the percent of evacuees who will seek refuge outside their own county of residence.

Table 3. Vehicle Use Rates for Residents in Site Built Homes or Mobile and Manufactured Homes

Vehicle Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	90	90	90	90	90
Mobile and Manufactured Homes	80	80	80	80	80

Vehicle use rate indicates of percentage of vehicles available to the evacuating household that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	10	10	10	10	10

Public shelter use rate indicates the percent of evacuees who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	55	55	55	55	55
Mobile and Manufactured Homes	60	60	60	60	60

Friend/relative use rate indicates the percent of evacuees who will seek refuge at the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

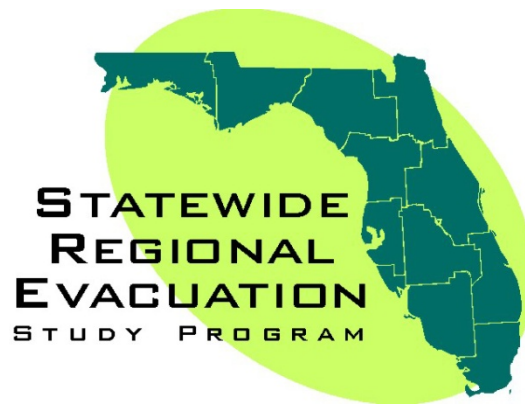
Hotel/Motel Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	10	10	10	10	10

Hotel/motel use rate indicates the percent of evacuees who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	10	10	10	10	10
Mobile and Manufactured Homes	15	15	15	15	15

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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Table 1. Evacuation Rates for Residents in Site Built Homes

Evacuation Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	45	55	80	85	95
Cat 2 Surge Evacuation Zone	35	45	75	80	90
Cat 3 Surge Evacuation Zone	25	30	70	80	90
Cat 4 Surge Evacuation Zone	10	15	40	65	85
Cat 5 Surge Evacuation Zone	5	15	15	50	75
Inland of Surge Evacuation Zones	5	5	15	25	30

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated. Shaded cells indicate shadow evacuation – evacuation from areas not included in evacuation notices.

Table 2. Out-of-County Trip Rates for Residents in Site Built Homes

Out-of-County Trips	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	85	85	85	85	85
Cat 2 Surge Evacuation Zone	85	85	85	85	85
Cat 3 Surge Evacuation Zone	85	85	85	85	85
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	80	80	80	80	80

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each storm threat scenario.

Table 3. Vehicle Use Rates for Residents in Site Built Homes

Vehicle Use Rate	Storm Threat Scenario				
Site-built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	80	80	80	80	80
Cat 2 Surge Evacuation Zone	80	80	80	80	80
Cat 3 Surge Evacuation Zone	80	80	80	80	80
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	70	70	70	70	70

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built Homes

Public Shelter Use	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	5	5	5	5	5
Cat 2 Surge Evacuation Zone	5	5	5	5	5
Cat 3 Surge Evacuation Zone	5	5	5	5	5
Cat 4 Surge Evacuation Zone	8	8	8	8	8
Cat 5 Surge Evacuation Zone	8	8	8	8	8
Inland of Surge Evacuation Zones	8	8	8	8	8

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built Homes

Friend/Relative Use	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	55	55	55	55	55
Cat 2 Surge Evacuation Zone	55	55	55	55	55
Cat 3 Surge Evacuation Zone	55	55	55	55	55
Cat 4 Surge Evacuation Zone	55	55	55	55	55
Cat 5 Surge Evacuation Zone	55	55	55	55	55
Inland of Surge Evacuation Zones	55	55	55	55	55

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built Homes

Hotel/Motel Use	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	25	25	25	25	25
Cat 2 Surge Evacuation Zone	25	25	25	25	25
Cat 3 Surge Evacuation Zone	25	25	25	25	25
Cat 4 Surge Evacuation Zone	25	25	25	25	25
Cat 5 Surge Evacuation Zone	25	25	25	25	25
Inland of Surge Evacuation Zones	25	25	25	25	25

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built Homes

Other Refuge Use	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	15	15	15	15	15
Cat 2 Surge Evacuation Zone	15	15	15	15	15
Cat 3 Surge Evacuation Zone	15	15	15	15	15
Cat 4 Surge Evacuation Zone	12	12	12	12	12
Cat 5 Surge Evacuation Zone	12	12	12	12	12
Inland of Surge Evacuation Zones	12	12	12	12	12

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.

Table 8. Evacuation Rates for Residents in Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	65	75	85	90	95
Cat 2 Surge Evacuation Zone	60	70	85	90	95
Cat 3 Surge Evacuation Zone	60	70	85	90	95
Cat 4 Surge Evacuation Zone	60	70	80	85	90
Cat 5 Surge Evacuation Zone	60	70	80	85	90
Inland of Surge Evacuation Zones	60	65	75	80	85

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 9. Out-of-County Trip Rates for Residents in Mobile and Manufactured homes

Out-of-County Trips	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	80	80	80	80	80
Cat 2 Surge Evacuation Zone	80	80	80	80	80
Cat 3 Surge Evacuation Zone	80	80	80	80	80
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	80	80	80	80	80

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence.

Table 10. Vehicle Use Rates for Residents in Mobile and Manufactured Homes

Vehicle Use Rate	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	80	80	80	80	80
Cat 2 Surge Evacuation Zone	80	80	80	80	80
Cat 3 Surge Evacuation Zone	80	80	80	80	80
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	75	75	75	75	75

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 11. Public Shelter Use Rates for Residents in Mobile and Manufactured Homes

Public Shelter Use	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	8	8	8	8	8
Cat 2 Surge Evacuation Zone	8	8	8	8	8
Cat 3 Surge Evacuation Zone	8	8	8	8	8
Cat 4 Surge Evacuation Zone	8	8	8	8	8
Cat 5 Surge Evacuation Zone	8	8	8	8	8
Inland of Surge Evacuation Zones	8	8	8	8	8

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 12. Friend/Relative Refuge Use Rates for Residents in Mobile and Manufactured Homes

Friend/Relative Use	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	75	75	75	75	75
Cat 2 Surge Evacuation Zone	75	75	75	75	75
Cat 3 Surge Evacuation Zone	75	75	75	75	75
Cat 4 Surge Evacuation Zone	75	75	75	75	75
Cat 5 Surge Evacuation Zone	75	75	75	75	75
Inland of Surge Evacuation Zones	75	75	75	75	75

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 13. Hotel/Motel Refuge Use Rates for Residents in Mobile and Manufactured Homes

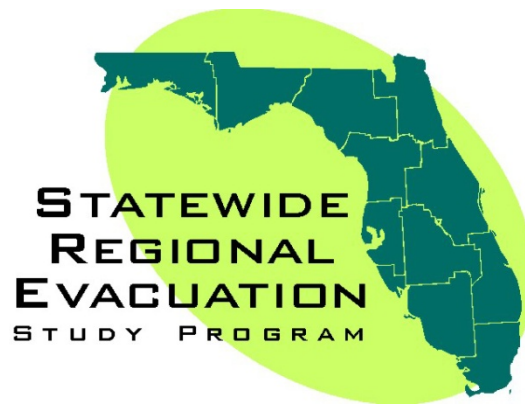
Hotel/Motel Use	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	10	10	10	10	10
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 14. Other Refuge Use Rates for Residents in Mobile and Manufactured Homes

Other Refuge Use	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	7	7	7	7	7
Cat 2 Surge Evacuation Zone	7	7	7	7	7
Cat 3 Surge Evacuation Zone	7	7	7	7	7
Cat 4 Surge Evacuation Zone	7	7	7	7	7
Cat 5 Surge Evacuation Zone	7	7	7	7	7
Inland of Surge Evacuation Zones	7	7	7	7	7

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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Jackson County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built or Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	5	10	20	25	30
Mobile and Manufactured Homes	50	55	70	80	85

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer in each storm threat scenario. Figures assume that evacuation will be recommended for mobile and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 2. Out-of-County Trip Rates for Residents in Site Built or Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	65	65	65	70	70
Mobile and Manufactured Homes	40	40	40	50	50

Out-of-county trip rate indicates the percent of evacuees who will seek refuge outside their own county of residence.

Table 3. Vehicle Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Vehicle Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	70	70	70	70	70
Mobile and Manufactured Homes	70	70	70	70	70

Vehicle use rate indicates of percentage of vehicles available to the evacuating household that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	10	10	10	10	10
Mobile and Manufactured Homes	5	5	5	5	5

Public shelter use rate indicates the percent of evacuees who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	55	55	55	55	55
Mobile and Manufactured Homes	60	60	60	60	60

Friend/relative use rate indicates the percent of evacuees who will seek refuge at the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

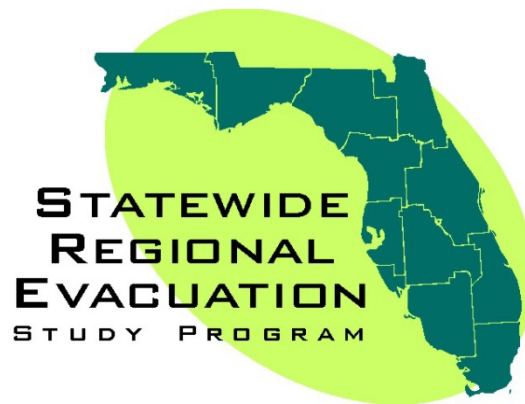
Hotel/Motel Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	15	15	15	15	15

Hotel/motel use rate indicates the percent of evacuees who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	20	20	20	20	20

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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Jefferson County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built Homes

Evacuation Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	50	60	75	90	95
Cat 2 Surge Evacuation Zone	40	40	50	80	85
Cat 3 Surge Evacuation Zone	20	25	45	75	80
Cat 4 Surge Evacuation Zone	10	20	30	70	80
Cat 5 Surge Evacuation Zone	10	10	20	45	75
Inland of Surge Evacuation Zones	5	10	15	20	25

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated. Shaded cells indicate shadow evacuation – evacuation from areas not included in evacuation notices.

Table 2. Out-of-County Trip Rates for Residents in Site Built Homes

Out-of-County Trip Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	50	50	55	60	60
Cat 2 Surge Evacuation Zone	50	50	55	60	60
Cat 3 Surge Evacuation Zone	50	50	55	60	60
Cat 4 Surge Evacuation Zone	50	50	55	60	60
Cat 5 Surge Evacuation Zone	50	50	55	60	60
Inland of Surge Evacuation Zones	70	70	75	75	75

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each storm threat scenario.

Table 3. Vehicle Use Rates for Residents in Site Built Homes

Vehicle Use Rate	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	70	70	70	70	70
Cat 2 Surge Evacuation Zone	70	70	70	70	70
Cat 3 Surge Evacuation Zone	70	70	70	70	70
Cat 4 Surge Evacuation Zone	70	70	70	70	70
Cat 5 Surge Evacuation Zone	70	70	70	70	70
Inland of Surge Evacuation Zones	70	70	70	70	70

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built Homes

Public Shelter Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	10	10	10	10	10
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built Homes

Friend/Relative Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	65	65	65	65	65
Cat 2 Surge Evacuation Zone	65	65	65	65	65
Cat 3 Surge Evacuation Zone	65	65	65	65	65
Cat 4 Surge Evacuation Zone	65	65	65	65	65
Cat 5 Surge Evacuation Zone	65	65	65	65	65
Inland of Surge Evacuation Zones	65	65	65	65	65

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built Homes

Hotel/Motel Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	10	10	10	10	10
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built Homes

Other Refuge Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	15	15	15	15	15
Cat 2 Surge Evacuation Zone	15	15	15	15	15
Cat 3 Surge Evacuation Zone	15	15	15	15	15
Cat 4 Surge Evacuation Zone	15	15	15	15	15
Cat 5 Surge Evacuation Zone	15	15	15	15	15
Inland of Surge Evacuation Zones	15	15	15	15	15

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.

Table 8. Evacuation Rates for Residents in Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	60	65	70	85	95
Cat 2 Surge Evacuation Zone	60	65	70	85	95
Cat 3 Surge Evacuation Zone	60	65	70	85	95
Cat 4 Surge Evacuation Zone	60	65	70	85	95
Cat 5 Surge Evacuation Zone	60	65	70	85	95
Inland of Surge Evacuation Zones	60	65	70	85	95

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 9. Out-of-County Trip Rates for Residents in Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	75	75	75	75	75
Cat 2 Surge Evacuation Zone	70	70	70	70	70
Cat 3 Surge Evacuation Zone	70	70	70	70	70
Cat 4 Surge Evacuation Zone	70	70	70	70	70
Cat 5 Surge Evacuation Zone	70	70	70	70	70
Inland of Surge Evacuation Zones	70	70	70	70	70

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each storm threat scenario.

Table 10. Vehicle Use Rates for Residents in Mobile and Manufactured Homes

Vehicle Use Rate	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	85	85	85	85	85
Cat 2 Surge Evacuation Zone	85	85	85	85	85
Cat 3 Surge Evacuation Zone	85	85	85	85	85
Cat 4 Surge Evacuation Zone	85	85	85	85	85
Cat 5 Surge Evacuation Zone	85	85	85	85	85
Inland of Surge Evacuation Zones	75	75	75	75	75

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 11. Public Shelter Use Rates for Residents in Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	15	15	15	15	15
Cat 2 Surge Evacuation Zone	15	15	15	15	15
Cat 3 Surge Evacuation Zone	15	15	15	15	15
Cat 4 Surge Evacuation Zone	15	15	15	15	15
Cat 5 Surge Evacuation Zone	15	15	15	15	15
Inland of Surge Evacuation Zones	15	15	15	15	15

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 12. Friend/Relative Refuge Use Rates for Residents in Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	65	65	65	65	65
Cat 2 Surge Evacuation Zone	65	65	65	65	65
Cat 3 Surge Evacuation Zone	65	65	65	65	65
Cat 4 Surge Evacuation Zone	65	65	65	65	65
Cat 5 Surge Evacuation Zone	65	65	65	65	65
Inland of Surge Evacuation Zones	65	65	65	65	65

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 13. Hotel/Motel Refuge Use Rates for Residents in Mobile and Manufactured Homes

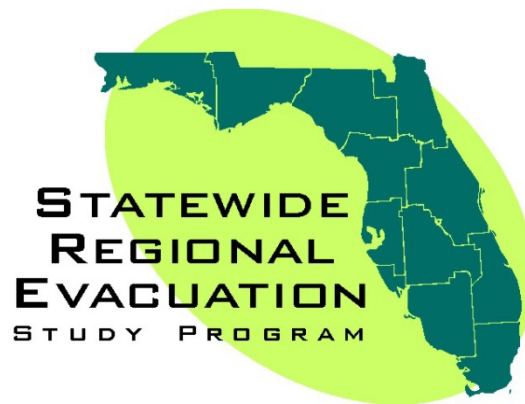
Hotel/Motel Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	10	10	10	10	10
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 14. Other Refuge Use Rates for Residents in Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	10	10	10	10	10
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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Leon County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built or Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	5	10	20	25	30
Mobile and Manufactured Homes	50	55	70	80	85

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer in each storm threat scenario. Figures assume that evacuation will be recommended for mobile and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 2. Out-of-County Trip Rates for Residents in Site Built or Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	70	70	70	70	75
Mobile and Manufactured Homes	50	50	50	60	60

Out-of-county trip rate indicates the percent of evacuees who will seek refuge outside their own county of residence.

Table 3. Vehicle Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Vehicle Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	75	75	75	75	75
Mobile and Manufactured Homes	75	75	75	75	75

Vehicle use rate indicates of percentage of vehicles available to the evacuating household that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	5	5	5	5	5
Mobile and Manufactured Homes	10	10	10	10	10

Public shelter use rate indicates the percent of evacuees who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	60	60	60	60	60
Mobile and Manufactured Homes	65	65	65	65	65

Friend/relative use rate indicates the percent of evacuees who will seek refuge at the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

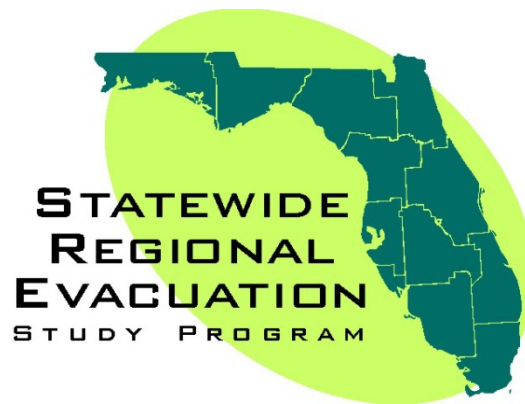
Hotel/Motel Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	20	20	20	20	20
Mobile and Manufactured Homes	10	10	10	10	10

Hotel/motel use rate indicates the percent of evacuees who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	15	15	15	15	15

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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APPENDIX A-8

Liberty County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built or Mobile and Manufactured Homes

Evacuation Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	5	10	20	25	30
Mobile and Manufactured Homes	50	55	70	80	85

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer in each storm threat scenario. Figures assume that evacuation will be recommended for mobile and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 2. Out-of-County Trip Rates for Residents Site Built or Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	65	65	65	70	70
Mobile and Manufactured Homes	50	50	50	60	60

Out-of-county trip rate indicates the percent of evacuees who will seek refuge outside their own county of residence.

Table 3. Vehicle Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Vehicle Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	75	75	75	75	75
Mobile and Manufactured Homes	75	75	75	75	75

Vehicle use rate indicates of percentage of vehicles available to the evacuating household that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	10	10	10	10	10
Mobile and Manufactured Homes	15	15	15	15	15

Public shelter use rate indicates the percent of evacuees who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	55	55	55	55	55
Mobile and Manufactured Homes	55	55	55	55	55

Friend/relative use rate indicates the percent of evacuees who will seek refuge at the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

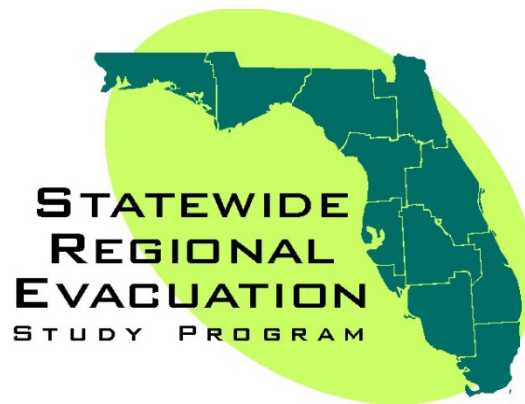
Hotel/Motel Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	10	10	10	10	10

Hotel/motel use rate indicates the percent of evacuees who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built or Mobile and Manufactured Homes

Other Refuge Use Rates	Storm Threat Scenario				
	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Site Built Homes	15	15	15	15	15
Mobile and Manufactured Homes	15	15	15	15	15

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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Wakulla County Planning Assumptions



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Table 1. Evacuation Rates for Residents in Site Built Homes

Evacuation Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	55	60	75	90	95
Cat 2 Surge Evacuation Zone	45	50	70	85	90
Cat 3 Surge Evacuation Zone	20	25	65	80	90
Cat 4 Surge Evacuation Zone	10	20	50	75	85
Cat 5 Surge Evacuation Zone	10	10	30	45	75
Inland of Surge Evacuation Zones	5	5	10	15	20

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated. Shaded cells indicate shadow evacuation – evacuation from areas not included in evacuation notices.

Table 2. Out-of-County Trip Rates for Residents in Site Built Homes

Out-of-County Trip Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	80	80	80	80	80
Cat 2 Surge Evacuation Zone	80	80	80	80	80
Cat 3 Surge Evacuation Zone	80	80	80	80	80
Cat 4 Surge Evacuation Zone	80	80	80	80	80
Cat 5 Surge Evacuation Zone	80	80	80	80	80
Inland of Surge Evacuation Zones	80	80	80	80	80

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each threat scenario.

Table 3. Vehicle Use Rates for Residents in Site Built Homes

Vehicle Use Rate	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	75	75	75	75	75
Cat 2 Surge Evacuation Zone	75	75	75	75	75
Cat 3 Surge Evacuation Zone	75	75	75	75	75
Cat 4 Surge Evacuation Zone	75	75	75	75	75
Cat 5 Surge Evacuation Zone	75	75	75	75	75
Inland of Surge Evacuation Zones	75	75	75	75	75

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 4. Public Shelter Use Rates for Residents in Site Built Homes

Public Shelter Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	5	5	5	5	5
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 5. Friend/Relative Refuge Use Rates for Residents in Site Built Homes

Friend/Relative Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	65	65	65	65	65
Cat 2 Surge Evacuation Zone	65	65	65	65	65
Cat 3 Surge Evacuation Zone	65	65	65	65	65
Cat 4 Surge Evacuation Zone	65	65	65	65	65
Cat 5 Surge Evacuation Zone	65	65	65	65	65
Inland of Surge Evacuation Zones	65	65	65	65	65

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 6. Hotel/Motel Refuge Use Rates for Residents in Site Built Homes

Hotel/Motel Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	15	15	15	15	15
Cat 2 Surge Evacuation Zone	15	15	15	15	15
Cat 3 Surge Evacuation Zone	15	15	15	15	15
Cat 4 Surge Evacuation Zone	15	15	15	15	15
Cat 5 Surge Evacuation Zone	15	15	15	15	15
Inland of Surge Evacuation Zones	15	15	15	15	15

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 7. Other Refuge Use Rates for Residents in Site Built Homes

Other Refuge Use Rates	Storm Threat Scenario				
Site Built Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	15	15	15	15	15
Cat 2 Surge Evacuation Zone	15	15	15	15	15
Cat 3 Surge Evacuation Zone	15	15	15	15	15
Cat 4 Surge Evacuation Zone	15	15	15	15	15
Cat 5 Surge Evacuation Zone	15	15	15	15	15
Inland of Surge Evacuation Zones	15	15	15	15	15

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.

Table 8. Evacuation Rates for Residents in Mobile and Manufactured homes

Evacuation Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	60	65	70	85	95
Cat 2 Surge Evacuation Zone	60	65	70	85	95
Cat 3 Surge Evacuation Zone	60	65	70	85	95
Cat 4 Surge Evacuation Zone	60	65	70	85	95
Cat 5 Surge Evacuation Zone	60	65	70	85	95
Inland of Surge Evacuation Zones	60	65	70	85	95

Evacuation rate indicates the percent of residents who will leave their homes to go someplace safer from each zone in each storm threat scenario. Figures are based on the assumption that officials order evacuation for surge evacuation zones corresponding to storm category, plus all mobile homes and manufactured homes. Figures also assume that the actual storm track passes very close to the area being evacuated.

Table 9. Out-of-County Trip Rates for Residents in Mobile and Manufactured Homes

Out-of-County Trip Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	75	75	75	75	75
Cat 2 Surge Evacuation Zone	70	70	70	70	70
Cat 3 Surge Evacuation Zone	70	70	70	70	70
Cat 4 Surge Evacuation Zone	70	70	70	70	70
Cat 5 Surge Evacuation Zone	70	70	70	70	70
Inland of Surge Evacuation Zones	70	70	70	70	70

Out-of-county trip rate indicates the percent of evacuees from each zone who will seek refuge outside their own county of residence in each storm threat scenario.

Table 10. Vehicle Use Rates for Residents in Mobile and Manufactured Homes

Vehicle Use Rate	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	70	70	70	70	70
Cat 2 Surge Evacuation Zone	70	70	70	70	70
Cat 3 Surge Evacuation Zone	70	70	70	70	70
Cat 4 Surge Evacuation Zone	70	70	70	70	70
Cat 5 Surge Evacuation Zone	70	70	70	70	70
Inland of Surge Evacuation Zones	70	70	70	70	70

Vehicle use rate indicates of percentage of vehicles available to the evacuating household from each zone that will be used in evacuation in each storm threat scenario.

Table 11. Public Shelter Use Rates for Residents in Mobile and Manufactured Homes

Public Shelter Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	5	5	5	5	5
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Public shelter use rate indicates the percent of evacuees from each zone who will seek refuge in public shelters, in each storm threat scenario.

Table 12. Friend/Relative Refuge Use Rates for Residents in Mobile and Manufactured Homes

Friend/Relative Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	65	65	65	65	65
Cat 2 Surge Evacuation Zone	65	65	65	65	65
Cat 3 Surge Evacuation Zone	65	65	65	65	65
Cat 4 Surge Evacuation Zone	65	65	65	65	65
Cat 5 Surge Evacuation Zone	65	65	65	65	65
Inland of Surge Evacuation Zones	65	65	65	65	65

Friend/relative rate indicates the percent of evacuees from each zone who will seek refuge in the homes of friends and relatives, in each storm threat scenario.

Table 13. Hotel/Motel Refuge Use Rates for Residents in Mobile and Manufactured Homes

Hotel/Motel Use Rates	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	10	10	10	10	10
Cat 2 Surge Evacuation Zone	10	10	10	10	10
Cat 3 Surge Evacuation Zone	10	10	10	10	10
Cat 4 Surge Evacuation Zone	10	10	10	10	10
Cat 5 Surge Evacuation Zone	10	10	10	10	10
Inland of Surge Evacuation Zones	10	10	10	10	10

Hotel/motel rate indicates the percent of evacuees from each zone who will seek refuge in hotels and motels, in each storm threat scenario.

Table 14. Other Refuge Use Rates for Residents in Mobile and Manufactured Homes

Other Refuge Use Rate	Storm Threat Scenario				
Mobile and Manufactured Homes	Cat 1	Cat 2	Cat 3	Cat 4	Cat 5
Cat 1 Surge Evacuation Zone	20	20	20	20	20
Cat 2 Surge Evacuation Zone	20	20	20	20	20
Cat 3 Surge Evacuation Zone	20	20	20	20	20
Cat 4 Surge Evacuation Zone	20	20	20	20	20
Cat 5 Surge Evacuation Zone	20	20	20	20	20
Inland of Surge Evacuation Zones	20	20	20	20	20

Other refuge rate indicates the percent of evacuees from each zone who will seek refuge in locations such as churches, second homes, and workplaces, in each storm threat scenario.



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APPENDIX B

Working Data Tables



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Role of the Working Data Tables

Working data tables display data from the SRES Survey Data Report in a condensed, abbreviated format. **They are not intended to replace the Survey Data Report, which contains more complete descriptions of question wording and sample size information, and should not be used without being familiar with the information in the Survey Data Report.** The working data tables were prepared to facilitate in the use of the SRES survey data in deriving behavioral assumptions for planning. This was accomplished by organizing the survey data most relevant to particular behaviors together and placing as much of it as feasible on the same page to permit at-a-glance perusal of the most relevant information. As a consequence, variable names have been shortened to compress the space needed to display all of the pertinent data, and certain conventions have been applied to serve as reminders about caveats applicable in some instances.

One such caveat involves sample size constraints. If the number of respondents to a question was lower than 10, a dash appears in the respective cell, indicating that the sample size was too small to make useful inferences. If the sample size was between 10 and 20, the cell indicates the number of observations (e.g., n=12). In Tables 1, 2, 3, 5, 6 and 7 the variable "Would Evacuate in Cat 4-5" has an asterisk and data entries are italicized to indicate that the sample size for that variable is smaller than for others in the same table. In Tables 10 and 12 responses for the variable "Could Stay with Friend or Relative" are reported for the county as a whole because there were generally too few respondents to the question within a particular evacuation zone at the county level. The SRES Survey Data Report contains information about actual numbers of responses.

Tables 1, 2, 3 and 4 as applied to site-built homes, Tables 5, 6, 7 and 8 as applied to mobile homes and Table 9 contains information relevant to whether respondents will evacuate (i.e., leave their homes to go someplace safer). Tables 10, 11 and 12 summarize data used in projecting the type of refuge evacuees will employ. Tables 13, 14 and 15 pertain to whether evacuees will leave their own county. Table 16 is relevant for predicting the percentage of available vehicles that will be used by evacuating households.

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APPENDIX B-1

Franklin County Working Data Tables



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Table 1. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in Category 2 Hurricane

Site Built Homes	Cat 1	Cat 2-5
Flood in Category 2 Hurricane	46	29
Unsafe in Category 2 Hurricane	55	33
Expect Evacuation Notice in Category 2 Hurricane	87	59
Would Evacuate in Category 2 Hurricane*	-	57
Would Comply in Category 2 Hurricane	76	68

Table 2. Perceived Vulnerability, Expectation Evacuation, Evacuation Intentions in a Category 3 Hurricane

Site Built Homes	Cat 1	Cat 2-5
Flood in Category 3 Hurricane	65	49
Unsafe in Category 3 Hurricane	74	64
Expect Evacuation Notice in Category 3 Hurricane	94	84
Would Evacuate in Category 3 Hurricane*	-	78
Would Comply in Category 3 Hurricane	96	85

Table 3. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Site Built Homes	Cat 1	Cat 2-5
Flood in Category 4 Hurricane	84	49
Unsafe in Category 4 Hurricane	88	64
Expect Evacuation Notice in Category 4 Hurricane	98	84
Would Evacuate in Category 4 Hurricane*	-	78
Would Comply in Category 4 Hurricane	97	85

Table 4. Evacuation in Dennis, Frances, and Ivan and Type of Evacuation Notice Heard

Site Built Homes	Cat 1	Cat 2-5
Evacuated in Hurricane Dennis	39	21
Heard Must Evacuate	39	7
Heard Should Evacuate	17	11
Heard Neither	44	83
Evacuated in Hurricane Frances	28	13
Heard Must Evacuate	24	3
Heard Should Evacuate	19	10
Heard Neither	57	87
Evacuated in Hurricane Ivan	29	17
Heard Must Evacuate	22	3
Heard Should Evacuate	20	16
Heard Neither	58	81

Table 5. Perceived Vulnerability, Expectation of Receiving an Evacuation, Evacuation Intentions in a Category 2 Hurricane

Mobile Homes	
Flood in Category 2 Hurricane	19
Unsafe in Category 2 Hurricane	60
Expect Evacuation Notice in Category 2 Hurricane	71
Would Evacuation in Category 2 Hurricane	-
Would Comply in Category 2 Hurricane	75

Table 6. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 3 Hurricane

Mobile Homes	
Flood in Category 3 Hurricane	37
Unsafe in Category 3 Hurricane	78
Expect Evacuation Notice in Category 3 Hurricane	87
Would Evacuation in Category 3 Hurricane	-
Would Comply in Category 3 Hurricane	90

Table 7. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Mobile Homes	
Flood in Category 4 Hurricane	61
Unsafe in Category 4 Hurricane	88
Expect Evacuation Notice in Category 4 Hurricane	94
Would Evacuate in Category 4 Hurricane	-
Would Comply in Category 4 Hurricane	94

Table 8. Evacuation in Dennis, Frances and Ivan and Type of Evacuation Notice Heard

Mobile Homes	
Evacuated in Hurricane Dennis	36
Heard Must Evacuate	11
Heard Should Evacuate	25
Heard Neither	64
Evacuated in Hurricane Frances	23
Heard Must Evacuate	11
Heard Should Evacuate	12
Heard Neither	77
Evacuated in Hurricane Ivan	33
Heard Must	8
Heard Should	19
Heard Neither	73

Table 9. Evacuation in Dennis, Frances and Ivan, Depending on Type of Evacuation Notice Heard

	Site-Built Homes	Mobile Homes
Evacuated in Hurricane Dennis IF		
Heard Must Evacuate	49	-
Heard Should Evacuate	31	47 (n=19)
Heard Neither	20	23
Evacuated in Hurricane Frances IF		
Heard Must Evacuate	72 (n=18)	-
Heard Should Evacuate	35	-
Heard Neither	9	16
Evacuated in Hurricane Ivan IF		
Heard Must Evacuate	60 (n=16)	-
Heard Should Evacuate	46	67 (n=12)
Heard Neither	11	22

Table 10. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Frances and Ivan

Site Built Homes	Cat 1	Cat 2-5
Public Shelter in Category 2 Hurricane	2	5
Public Shelter in Category 3 Hurricane	2	5
Public Shelter in Category 4 Hurricane	2	5
Could Stay with Friend/Relative	64 (n=14)	
Public Shelter in Hurricane Dennis	0	0
Public Shelter in Hurricane Frances	0 (n=16)	5 (n=20)
Public Shelter in Hurricane Ivan	0 (n=16)	7

Table 11. Type of Refuge Used in Hurricanes Dennis, Frances and Ivan

	Site Built Homes	Mobile Homes
Public Shelters		
Hurricane Dennis	0	7
Hurricane Frances	3	13 (n=15)
Hurricane Ivan	5	14
Friends/Relatives		
Hurricane Dennis	52	59
Hurricane Frances	44	47
Hurricane Ivan	47	71
Hotels/Motels		
Hurricane Dennis	23	19
Hurricane Frances	28	33 (n=15)
Hurricane Ivan	28	14
Other		
Hurricane Dennis	100 (n=17)	-
Hurricane Frances	19	7 (n=15)
Hurricane Ivan	19	0

Table 12. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Frances and Ivan

Mobile Homes	
Public Shelter in Category 2 Hurricane	6
Public Shelter in Category 3 Hurricane	6
Public Shelter in Category 4 Hurricane	8
Could Stay with Friends/Relatives	-
Public Shelter in Hurricane Dennis	7
Public Shelter in Hurricane Frances	13 (n=15)
Public Shelter in Hurricane Ivan	14

Table 13. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Site Built Homes	Cat 1	Cat 2-5
Out of County in Category 2 Hurricane	94	90
Out of County in Category 3 Hurricane	94	90
Out of County in Category 3 Hurricane	94	90
Out of County in Hurricane Dennis	85	71
Out of County in Hurricane Frances	100 (n=14)	85
Out of County in Hurricane Ivan	100 (n=15)	78

Table 14. Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Region Total	Site Built Homes	Mobile Homes
Out of County		
Hurricane Dennis	77	80
Hurricane Frances	91	80 (n=15)
Hurricane Ivan	86	80 (n=20)

Table 15. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Mobile Homes	
Out-of-County In Category 2 Hurricane	87
Out-of-County in Category 3 Hurricane	86
Out-of-County in Category 4 Hurricane	86
Out-of-County in Hurricane Dennis	80
Out-of-County in Hurricane Frances	80 (n=15)
Out-of-County in Hurricane Ivan	80 (n=20)

Table 16. Percentage of Evacuees with Vehicles Available Evacuation

Vehicle Use	Cat 1	Cat 2-5
Site Built Homes	83	
Mobile Homes	81	



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APPENDIX B-2

Gulf County Working Data Tables



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Table 1. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in Category 2 Hurricane

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Flood in Category 2 Hurricane	25	17	12	4
Unsafe in Category 2 Hurricane	44	34	24	10
Expect Evacuation Notice in Category 2 Hurricane	80	64	52	43
Would Evacuate in Category 2 Hurricane*	-	59	42 (n=19)	46
Would Comply in Category 2 Hurricane	74	78	55	64

Table 2. Perceived Vulnerability, Expectation Evacuation, Evacuation Intentions in a Category 3 Hurricane

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Flood in Category 3 Hurricane	54	34	24	8
Unsafe in Category 3 Hurricane	69	63	33	44
Expect Evacuation Notice in Category 3 Hurricane	88	88	61	75
Would Evacuate in Category 3 Hurricane*	-	82	68	55
Would Comply in Category 3 Hurricane	85	89	67	81

Table 3. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Flood in Category 4 Hurricane	54	34	24	17
Unsafe in Category 4 Hurricane	69	63	67	82
Expect Evacuation Notice in Category 4 Hurricane	88	88	73	89
Would Evacuate in Category 4 Hurricane*	-	82	84 (n=19)	82
Would Comply in Category 4 Hurricane	85	89	85	96

Table 4. Evacuation in Dennis, Frances and Ivan and Type of Evacuation Notice Heard

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Evacuated in Hurricane Dennis	39	21	32	12
Heard Must Evacuate	39	7	4	3
Heard Should Evacuate	17	11	24	16
Heard Neither	44	83	72	81
Evacuated in Hurricane Frances	28	13	30	7
Heard Must Evacuate	24	3	0	0
Heard Should Evacuate	19	10	13	14
Heard Neither	57	87	87	86
Evacuated in Hurricane Ivan	29	17	22	6
Heard Must Evacuate	22	3	9	2
Heard Should Evacuate	20	16	17	9
Heard Neither	58	81	74	89

Table 5. Perceived Vulnerability, Expectation of Receiving an Evacuation, Evacuation Intentions in a Category 2 Hurricane

Mobile Homes	
Flood in Category 2 Hurricane	16
Unsafe in Category 2 Hurricane	56
Expect Evacuation Notice in Category 2 Hurricane	67
Would Evacuate in Category 2 Hurricane	81
Would Comply in Category 2 Hurricane	77

Table 6. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 3 Hurricane

Mobile Homes	
Flood in Category 3 Hurricane	33
Unsafe in Category 3 Hurricane	66
Expect Evacuation Notice in Category 3 Hurricane	83
Would Evacuate in Category 3 Hurricane	86
Would Comply in Category 3 Hurricane	84

Table 7. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Mobile Homes	
Flood in Category 4 Hurricane	46
Unsafe in Category 4 Hurricane	81
Expect Evacuation Notice in Category 4 Hurricane	89
Would Evacuate in Category 4 Hurricane	86
Would Comply in Category 4 Hurricane	93

Table 8. Evacuation in Dennis, Frances and Ivan and Type of Evacuation Notice Heard

Mobile Homes	
Evacuated in Hurricane Dennis	37
Heard Must Evacuate	11
Heard Should Evacuate	22
Heard Neither	67
Evacuated in Hurricane Frances	29
Heard Must Evacuate	8
Heard Should Evacuate	21
Heard Neither	71
Evacuated in Hurricane Ivan	26
Heard Must	2
Heard Should	19
Heard Neither	79

Table 9. Evacuation in Dennis, Frances and Ivan, Depending on Type of Evacuation Notice Heard

	Site-Built Homes	Mobile Homes
Evacuated in Hurricane Dennis IF		
Heard Must Evacuate	77	-
Heard Should Evacuate	41	58 (n=12)
Heard Neither	15	25
Evacuated in Hurricane Frances IF		
Heard Must Evacuate	92 (n=12)	-
Heard Should Evacuate	32	50 (n=10)
Heard Neither	11	15
Evacuated in Hurricane Ivan IF		
Heard Must Evacuate	89	-
Heard Should Evacuate	32	40 (n=10)
Heard Neither	13	21

Table 10. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Frances and Ivan

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Public Shelter in Category 2 Hurricane	5	5	12	11
Public Shelter in Category 3 Hurricane	7	5	12	13
Public Shelter in Category 4 Hurricane	7	4	12	10
Could Stay with Friend/Relative	56			
Public Shelter in Hurricane Dennis	0	3	-	-
Public Shelter in Hurricane Frances	20 (n=15)	0	-	-
Public Shelter in Hurricane Ivan	10	6	-	-

Table 11. Type of Refuge Used in Hurricanes Dennis, Frances and Ivan

	Site Built Homes	Mobile Homes
Public Shelters		
Hurricane Dennis	4	0
Hurricane Frances	6	0 (n=14)
Hurricane Ivan	8	7 (n=14)
Friends/Relatives		
Hurricane Dennis	54	85
Hurricane Frances	57	79 (n=14)
Hurricane Ivan	51	71 (n=14)
Hotels/Motels		
Hurricane Dennis	29	5
Hurricane Frances	15	21 (n=14)
Hurricane Ivan	23	7 (n=14)
Other		
Hurricane Dennis	-	-
Hurricane Frances	13	0 (n=14)
Hurricane Ivan	13	0 (n=14)

Table 12. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Frances and Ivan

Mobile Homes	
Public Shelter in Category 2 Hurricane	7
Public Shelter in Category 3 Hurricane	9
Public Shelter in Category 4-5 Hurricane	7
Could Stay with Friends/Relatives	-
Public Shelter in Hurricane Dennis	0
Public Shelter in Hurricane Frances	0 (n=14)
Public Shelter in Hurricane Ivan	7 (n=14)

Table 13. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Out of County in Category 2 Hurricane	91	89	79	81
Out of County in Category 3 Hurricane	90	89	79	81
Out of County in Category 3 Hurricane	90	93	83	86
Out of County in Hurricane Dennis	82	97	-	-
Out of County in Hurricane Frances	62 (n=13)	90	-	-
Out of County in Hurricane Ivan	79 (n=19)	84	-	-

Table 14. Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Region Total	Site Built Homes	Mobile Homes
Out of County		
Hurricane Dennis	91	88 (n=17)
Hurricane Frances	77	79 (n=14)
Hurricane Ivan	77	75 (n=12)

Table 15. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Mobile Homes	
Out-of-County In Category 2 Hurricane	86
Out-of-County in Category 3 Hurricane	83
Out-of-County in Category 4 Hurricane	87
Out-of-County in Hurricane Dennis	88 (n=17)
Out-of-County in Hurricane Frances	79 (n=14)
Out-of-County in Hurricane Ivan	75 (n=12)

Table 16. Percent of Vehicles Available to Household Evacuees Intend to Use in Evacuation

Vehicle Use	Cat 1	Cat 3	Cat 4-5	Non-surge
Site Built Homes	82			71
Mobile Homes	80			73



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APPENDIX B-3

Jefferson County Working Data Tables



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Table 1. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in Category 2 Hurricane

Site Built Homes	Cat 1-5	Non-surge
Flood in Category 2 Hurricane	18	6
Unsafe in Category 2 Hurricane	29	22
Expect Evacuation Notice in Category 2 Hurricane	39	41
Would Evacuate in Category 2 Hurricane*	52 (n=19)	43
Would Comply in Category 2 Hurricane	64	74

Table 2. Perceived Vulnerability, Expectation Evacuation, Evacuation Intentions in a Category 3 Hurricane

Site Built Homes	Cat 1-5	Non-surge
Flood in Category 3 Hurricane	25	11
Unsafe in Category 3 Hurricane	39	43
Expect Evacuation Notice in Category 3 Hurricane	54	60
Would Evacuate in Category 3 Hurricane*	74	62
Would Comply in Category 3 Hurricane	86	81

Table 3. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Site Built Homes	Cat 1-5	Non-surge
Flood in Category 4 Hurricane	39	21
Unsafe in Category 4 Hurricane	61	68
Expect Evacuation Notice in Category 4 Hurricane	71	83
Would Evacuate in Category 4 Hurricane*	90 (n=19)	76
Would Comply in Category 4 Hurricane	82	92

Table 4. Evacuation in Charley, Dennis and Frances and Type of Evacuation Notice Heard

Site Built Homes	Cat 1-5	Non-surge
Evacuated in Hurricane Charley	7 (n=15)	1
Heard Must Evacuate	0	1
Heard Should Evacuate	7	7
Heard Neither	93	92
Evacuated in Hurricane Dennis	0	0
Heard Must Evacuate	0	1
Heard Should Evacuate	9	6
Heard Neither	91	93
Evacuated in Hurricane Frances	4	1
Heard Must Evacuate	0	1
Heard Should Evacuate	9	4
Heard Neither	91	95

Table 5. Perceived Vulnerability, Expectation of Receiving an Evacuation, Evacuation Intentions in a Category 2 Hurricane

Mobile Homes	
Flood in Category 2 Hurricane	21
Unsafe in Category 2 Hurricane	51
Expect Evacuation Notice in Category 2 Hurricane	60
Would Evacuation in Category 2 Hurricane	75
Would Comply in Category 2 Hurricane	81

Table 6. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 3 Hurricane

Mobile Homes	
Flood in Category 3 Hurricane	25
Unsafe in Category 3 Hurricane	72
Expect Evacuation Notice in Category 3 Hurricane	77
Would Evacuation in Category 3 Hurricane	85
Would Comply in Category 3 Hurricane	90

Table 7. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Mobile Homes	
Flood in Category 4 Hurricane	32
Unsafe in Category 4 Hurricane	83
Expect Evacuation Notice in Category 4 Hurricane	93
Would Evacuate in Category 4 Hurricane	90
Would Comply in Category 4 Hurricane	95

Table 8. Evacuation in Charley, Dennis and Frances and Type of Evacuation Notice Heard

Mobile Homes	
Evacuated in Hurricane Charley	20
Heard Must Evacuate	-
Heard Should Evacuate	17
Heard Neither	83
Evacuated in Hurricane Dennis	18
Heard Must Evacuate	0
Heard Should Evacuate	14
Heard Neither	86
Evacuated in Hurricane Frances	10
Heard Must	0
Heard Should	26
Heard Neither	74

Table 9. Evacuation in Charley, Dennis and Frances, Depending on Type of Evacuation Notice Heard

	Site-Built Homes	Mobile Homes
Evacuated in Hurricane Charley IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	-	-
Heard Neither	2	15
Evacuated in Hurricane Dennis IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	-	-
Heard Neither	0	16
Evacuated in Hurricane Frances IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	-	20 (n=10)
Heard Neither	1	7

Table 10. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Charley, Dennis and Frances

Site Built Homes	Cat 1-5	Non-surge
Public Shelter in Category 2 Hurricane	21	15
Public Shelter in Category 3 Hurricane	18	14
Public Shelter in Category 4 Hurricane	18	12
Could Stay with Friend/Relative	71	
Public Shelter in Hurricane Charley	-	-
Public Shelter in Hurricane Dennis	-	-
Public Shelter in Hurricane Frances	-	-

Table 11. Type of Refuge Used in Hurricanes Charley, Dennis and Frances

	Site Built Homes	Mobile Homes
Public Shelters		
Hurricane Charley	-	-
Hurricane Dennis	-	-
Hurricane Frances	-	-
Friends/Relatives		
Hurricane Charley	-	-
Hurricane Dennis	-	-
Hurricane Frances	-	-
Hotels/Motels		
Hurricane Charley	-	-
Hurricane Dennis	-	-
Hurricane Frances	-	-
Other		
Hurricane Charley	-	-
Hurricane Dennis	-	-
Hurricane Frances	-	-

Table 12. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Frances and Ivan

Mobile Homes	
Public Shelter in Category 2 Hurricane	30
Public Shelter in Category 3 Hurricane	30
Public Shelter in Category 4 Hurricane	33
Could Stay with Friends/Relatives	57
Public Shelter in Hurricane Charley	-
Public Shelter in Hurricane Dennis	-
Public Shelter in Hurricane Frances	-

Table 13. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Site Built Homes	Cat 1-5	Non-surge
Out of County in Category 2 Hurricane	50 (n=18)	70
Out of County in Category 3 Hurricane	53 (n=17)	73
Out of County in Category 3 Hurricane	58 (n=19)	77
Out of County in Hurricane Charley	-	-
Out of County in Hurricane Dennis	-	-
Out of County in Hurricane Frances	-	-

Table 14. Percentage of Out-of-County Evacuees in Hurricanes Charley, Dennis and Frances

Region Total	Site Built Homes	Mobile Homes
Out of County		
Hurricane Charley	-	-
Hurricane Dennis	-	-
Hurricane Frances	-	-

Table 15. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Mobile Homes	
Out-of-County In Category 2 Hurricane	46
Out-of-County in Category 3 Hurricane	49
Out-of-County in Category 4 Hurricane	55
Out-of-County in Hurricane Charley	-
Out-of-County in Hurricane Dennis	-
Out-of-County in Hurricane Frances	-

Table 16. Percentage of Evacuees with Vehicles Available Evacuation

Vehicle Use	Cat 1-5	Non-surge
Site Built Homes	68	68
Mobile Homes	90	74



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APPENDIX B-4

Wakulla County Working Data Tables



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Table 1. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in Category 2 Hurricane

Site Built Homes	Cat 1	Cat 2-5
Flood in Category 2 Hurricane	27	2
Unsafe in Category 2 Hurricane	38	29
Expect Evacuation Notice in Category 2 Hurricane	70	59
Would Evacuate in Category 2 Hurricane*	-	55
Would Comply in Category 2 Hurricane	72	70

Table 2. Perceived Vulnerability, Expectation Evacuation, Evacuation Intentions in a Category 3 Hurricane

Site Built Homes	Cat 1	Cat 2-5
Flood in Category 3 Hurricane	44	20
Unsafe in Category 3 Hurricane	64	54
Expect Evacuation Notice in Category 3 Hurricane	86	78
Would Evacuate in Category 3 Hurricane*	-	68
Would Comply in Category 3 Hurricane	84	83

Table 3. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Site Built Homes	Cat 1	Cat 2-5
Flood in Category 4 Hurricane	54	37
Unsafe in Category 4 Hurricane	82	78
Expect Evacuation Notice in Category 4 Hurricane	94	93
Would Evacuate in Category 4 Hurricane*	-	96
Would Comply in Category 4 Hurricane	97	91

Table 4. Evacuation in Hurricanes Dennis, Kate and Opal and Type of Evacuation Notice Heard

Site Built Homes	Cat 1	Cat 2-5
Evacuated in Hurricane Dennis	26	7
Heard Must Evacuate	11	1
Heard Should Evacuate	22	16
Heard Neither	68	84
Evacuated in Hurricane Kate	27	19
Heard Must Evacuate	16	12
Heard Should Evacuate	16	39
Heard Neither	68	50
Evacuated in Hurricane Opal	19	4
Heard Must Evacuate	10	2
Heard Should Evacuate	16	20
Heard Neither	74	78

Table 5. Perceived Vulnerability, Expectation of Receiving an Evacuation, Evacuation Intentions in a Category 2 Hurricane

Mobile Homes	Cat 1	Cat 2-5
Flood in Category 2 Hurricane	24	10
Unsafe in Category 2 Hurricane	46	52
Expect Evacuation Notice in Category 2 Hurricane	72	79
Would Evacuate in Category 2 Hurricane	-	-
Would Comply in Category 2 Hurricane	70	76

Table 6. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 3 Hurricane

Mobile Homes	Cat 1	Cat 2-5
Flood in Category 3 Hurricane	40	29
Unsafe in Category 3 Hurricane	68	81
Expect Evacuation Notice in Category 3 Hurricane	84	89
Would Evacuate in Category 3 Hurricane	-	-
Would Comply in Category 3 Hurricane	88	95

Table 7. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Mobile Homes	Cat 1	Cat 2-5
Flood in Category 4 Hurricane	52	43
Unsafe in Category 4 Hurricane	78	86
Expect Evacuation Notice in Category 4 Hurricane	94	97
Would Evacuate in Category 4 Hurricane	-	-
Would Comply in Category 4 Hurricane	92	98

Table 8. Evacuation in Dennis, Kate and Opal and Type of Evacuation Notice Heard

Mobile Homes	Cat 1	Cat 2-5
Evacuated in Hurricane Dennis	26	28
Heard Must Evacuate	2	4
Heard Should Evacuate	30	41
Heard Neither	67	56
Evacuated in Hurricane Kate	59 (n=17)	33 (n=15)
Heard Must Evacuate	18 (n=17)	13 (n=15)
Heard Should Evacuate	47 (n=17)	33 (n=15)
Heard Neither	35 (n=17)	53 (n=15)
Evacuated in Hurricane Opal	19	11
Heard Must	7	4
Heard Should	26	22
Heard Neither	67	74

Table 9. Evacuation in Dennis, Kate and Opal, Depending on Type of Evacuation Notice Heard

	Site-Built Homes	Mobile Homes
Evacuated in Hurricane Dennis IF		
Heard Must Evacuate	71 (n=14)	-
Heard Should Evacuate	32	46
Heard Neither	9	12
Evacuated in Hurricane Kate IF		
Heard Must Evacuate	90 (n=10)	-
Heard Should Evacuate	12 (n=17)	54 (n=13)
Heard Neither	14	21 (n=14)
Evacuated in Hurricane Opal IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	33	31 (n=13)
Heard Neither	4	8

Table 10. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Kate and Opal

Site Built Homes	Cat 1	Cat 2-5
Public Shelter in Category 2 Hurricane	8	
Public Shelter in Category 3 Hurricane	8	
Public Shelter in Category 4 Hurricane	6	
Could Stay with Friend/Relative	50	
Public Shelter in Hurricane Dennis	6	-
Public Shelter in Hurricane Kate	17 (n=12)	-
Public Shelter in Hurricane Opal	15 (n=13)	-

Table 11. Type of Refuge Used in Hurricanes Dennis, Kate and Opal

	Site Built Homes	Mobile Homes
Public Shelters		
Hurricane Dennis	5	8
Hurricane Kate	12 (n=17)	7 (n=15)
Hurricane Opal	13 (n=15)	-
Friends/Relatives		
Hurricane Dennis	68	58
Hurricane Kate	77 (n=17)	80 (n=15)
Hurricane Opal	60 (n=15)	-
Hotels/Motels		
Hurricane Dennis	18	12
Hurricane Kate	6 (n=17)	7 (n=15)
Hurricane Opal	20 (n=15)	-
Other		
Hurricane Dennis	-	-
Hurricane Kate	6 (n=17)	7 (n=15)
Hurricane Opal	7 (n=17)	-

Table 12. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Kate and Opal

Mobile Homes	Cat 1	Cat 2-5
Public Shelter in Category 2 Hurricane	6	14
Public Shelter in Category 3 Hurricane	6	14
Public Shelter in Category 4 Hurricane	8	13
Could Stay with Friends/Relatives	46 (n=13)	
Public Shelter in Hurricane Dennis	9	8
Public Shelter in Hurricane Kate	10 (n=10)	-
Public Shelter in Hurricane Opal	-	-

Table 13. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Kate and Opal

Site Built Homes	Cat 1	Cat 2-5
Out-of-County in Category 2 Hurricane	78	86
Out-of-County in Category 3 Hurricane	80	86
Out-of-County in Category 3 Hurricane	79	88
Out- of-County in Hurricane Dennis	82	-
Out-of-County in Hurricane Kate	50 (n=12)	-
Out-of-County in Hurricane Opal	-	-

Table 14. Percentage of Out-of-County Evacuees in Hurricanes Dennis, Kate and Opal

Region Total	Site Built Homes	Mobile Homes
Out-of-County		
Hurricane Dennis	81	96
Hurricane Kate	59 (n=17)	80 (n=15)
Hurricane Opal	60 (n=15)	-

Table 15. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Kate and Opal

Mobile Homes	Cat 1	Cat 2-5
Out-of-County In Category 2 Hurricane	73	71
Out-of-County in Category 3 Hurricane	74	74
Out-of-County in Category 4 Hurricane	76	73
Out-of-County in Hurricane Dennis	90 (n=10)	100 (n=13)
Out-of-County in Hurricane Kate	80 (n=10)	-
Out-of-County in Hurricane Opal	-	-

Table 16. Percentage of Evacuees with Vehicles Available Evacuation

Vehicle Use	Cat 1	Cat 2-5
Site Built Homes	76	
Mobile Homes	71	



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APPENDIX B-5

Apalachee Non-Coastal Counties Working Data Tables



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Table 1. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in Category 2 Hurricane

Site Built Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Flood in Category 2 Hurricane	5	7	10	7	1
Unsafe in Category 2 Hurricane	20	32	14	21	14
Expect Evacuation Notice in Category 2 Hurricane	43	44	39	35	41
Would Evacuate in Category 2 Hurricane*	61	69	64	48	53(N=19)
Would Comply in Category 2 Hurricane	75	73	71	80	66

Table 2. Perceived Vulnerability, Expectation Evacuation, Evacuation Intentions in a Category 3 Hurricane

Site Built Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Flood in Category 3 Hurricane	14	15	15	14	12
Unsafe in Category 3 Hurricane	44	49	41	52	35
Expect Evacuation Notice in Category 3 Hurricane	64	68	67	56	69
Would Evacuate in Category 3 Hurricane*	70	77	55	66	62(N=19)
Would Comply in Category 3 Hurricane	86	81	83	89	83

Table 3. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Site Built Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Flood in Category 4 Hurricane	20	23	28	26	21
Unsafe in Category 4 Hurricane	67	72	61	71	65
Expect Evacuation Notice in Category 4 Hurricane	81	87	85	81	85
Would Evacuate in Category 4 Hurricane*	91	89	86	90	84(N=19)
Would Comply in Category 4 Hurricane	96	92	93	97	92

Table 4. Evacuation in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

Site Built Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Evacuated in Hurricane Frances	-	4	-	1	-
Evacuated in Hurricane Ivan	20	4	14	2	3
Evacuated in Hurricane Jeanne	-	4	-	0	-
Evacuated in Hurricane Kate	7	-	2	-	9
Evacuated in Hurricane Katrina	14	-	6	-	6

Table 5. Perceived Vulnerability, Expectation of Receiving Evacuation Notice, Evacuation \Intentions in a Category 2 Hurricane

Mobile Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Flood in Category 2 Hurricane	13	16	20	-	16
Unsafe in Category 2 Hurricane	59	56	66	-	67
Expect Evacuation Notice in Category 2 Hurricane	50	60	69	-	78
Would Evacuation in Category 2 Hurricane*	-	-	-	-	90(N=10)
Would Comply in Category 2 Hurricane	75	72	80	-	76

Table 6. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 3 Hurricane

Mobile Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Flood in Category 3 Hurricane	19	24	29	-	33
Unsafe in Category 3 Hurricane	72	80	83	-	73
Expect Evacuation Notice in Category 3 Hurricane	75	80	89	-	89
Would Evacuation in Category 3 Hurricane	-	-	-	-	90(N=10)
Would Comply in Category 3 Hurricane	91	88	89	-	91

Table 7. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Mobile Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Flood in Category 4 Hurricane	28	28	49	-	38
Unsafe in Category 4 Hurricane	75	84	83	-	73
Expect Evacuation Notice in Category 4 Hurricane	91	92	97	-	89
Would Evacuate in Category 4 Hurricane	-	-	-	-	90(N=10)
Would Comply in Category 4 Hurricane	88	96	97	-	91

Table 8. Evacuation in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

Mobile Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Evacuated in Hurricane Frances	-	18(N=18)	-	-	-
Evacuated in Hurricane Ivan	38	13(N=16)	63	-	27
Evacuated in Hurricane Jeanne	-	6(N=18)	-	-	-
Evacuated in Hurricane Kate	-	-	40(N=10)	-	25(N=12)
Evacuated in Hurricane Katrina	24	-	38	-	14

Table 9. Evacuation in Frances, Ivan, Jeanne, Kate and Katrina Depending on Type of Evacuation

	Site-Built Homes	Mobile Homes
Evacuated in Hurricane Frances IF		
Heard Must Evacuate	0	-
Heard Should Evacuate	11	25(N=19)
Heard Neither	2	13(N=19)
Evacuated in Hurricane Ivan IF		
Heard Must Evacuate	56	83
Heard Should Evacuate	23	61
Heard Neither	6	25
Evacuated in Hurricane Jeanne IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	14	0(N=19)
Heard Neither	1	6(N=19)
Evacuated in Hurricane Kate IF		
Heard Must Evacuate	33	100
Heard Should Evacuate	31	20
Heard Neither	2	28
Evacuated in Hurricane Katrina IF		
Heard Must Evacuate	100	67
Heard Should Evacuate	27	54
Heard Neither	7	18

Table 10. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

Site Built Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Public Shelter in Category 2 Hurricane	18	33	21	13	18
Public Shelter in Category 3 Hurricane	18	29	21	10	19
Public Shelter in Category 4 Hurricane	18	32	20	11	20
	54(N=11)				68(N=12)
Could Stay with Friend/Relative					
Public Shelter in Hurricane Frances	-	-	-	-	-
Public Shelter in Hurricane Ivan	35	-	23(N=13)	-	-
Public Shelter in Hurricane Jeanne	-	-	-	-	-
Public Shelter in Hurricane Kate	-	-	-	-	-
Public Shelter in Hurricane Katrina	47(N=15)	-	-	-	-

Table 11. Public Shelter Use in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

	Site Built Homes	Mobile Homes
Frances	-	-
Ivan	29	11
Jeanne	-	-
Kate	-	-
Katrina	27	5

Table 12. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Dennis, Frances and Ivan

Mobile Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Public Shelter in Category 2 Hurricane	28	16	3	-	33
Public Shelter in Category 3 Hurricane	25	16	3	-	36
Public Shelter in Category 4-5 Hurricane	25	16	3	-	22
Could Stay with Friend/Relatives	-	-	-	-	75(N=12)
Public Shelter in Hurricane Frances	-	-	-	-	-
Public Shelter in Hurricane Ivan	-	-	0(N=17)	-	-
Public Shelter in Hurricane Jeanne	-	-	-	-	-
Public Shelter in Hurricane Kate	-	-	-	-	-
Public Shelter in Hurricane Katrina	-	-	9(N=11)	-	-

Table 13. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

Site Built Homes	Cat 1	Cat 2-3	Cat 4-5	Non-surge
Out of County in Category 2 Hurricane	91	89	79	81
Out of County in Category 3 Hurricane	90	89	79	81
Out of County in Category 3 Hurricane	90	93	83	86
Out of County in Hurricane Frances	-	-	-	-
Out of County in Hurricane Ivan	32(N=19)	-	54(N=13)	-
Out of County in Hurricane Jeanne	-	-	-	-
Out of County in Hurricane Kate	-	-	-	-
Out of County in Hurricane Katrina	50(N=14)	-	-	-

Table 14. Percentage of Out-of-County Evacuees in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

	Site Built Homes	Mobile Homes
Hurricane Frances	-	-
Hurricane Ivan	40	33
Hurricane Jeanne	-	-
Hurricane Kate	-	-
Hurricane Katrina	52	18

Table 15. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Mobile Homes	Calhoun	Gadsden	Jackson	Leon	Liberty
Out-of-County In Category 2 Hurricane	32	68	39	-	49
Out-of-County in Category 3 Hurricane	46	73	42	-	49
Out-of-County in Category 4 Hurricane	50	73	54	-	63
Out of County in Hurricane Frances	-	-	-	-	-
Out of County in Hurricane Ivan	-	-	47(N=17)	-	-
Out of County in Hurricane Jeanne	-	-	-	-	-
Out of County in Hurricane Kate	-	-	-	-	-
Out of County in Hurricane Katrina	-	-	18(N=11)	-	-

Table 16. Percent of Vehicles Available to Household Evacuees Intend to Use in Evacuation

Vehicle Use	Calhoun	Gadsden	Jackson	Leon	Liberty
Site Built Homes	74	100	71	77	74
Mobile Homes	71	82	72	-	75



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Regional Behavioral Analysis

Apalachee Region

APPENDIX B-6

Apalachee Region Working Data Tables



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Table 1. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in Category 2 Hurricane

Site Built Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Flood in Category 2 Hurricane	31	20	5	6	16
Unsafe in Category 2 Hurricane	43	31	17	21	28
Expect Evacuation Notice in Category 2 Hurricane	74	60	42	40	54
Would Evacuate in Category 2 Hurricane*	53(N=19)	54	44	59	54
Would Comply in Category 2 Hurricane	73	70	70	74	72

Table 2. Perceived Vulnerability, Expectation Evacuation, Evacuation Intentions in a Category 3 Hurricane

Site Built Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Flood in Category 3 Hurricane	50	34	10	14	28
Unsafe in Category 3 Hurricane	66	59	44	45	54
Expect Evacuation Notice in Category 3 Hurricane	86	82	66	64	75
Would Evacuate in Category 3 Hurricane*	74(N=19)	75	58	66	68
Would Comply in Category 3 Hurricane	87	85	81	85	85

Table 3. Perceived Vulnerability, Expectation of Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Site Built Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Flood in Category 4 Hurricane	65	55	19	24	42
Unsafe in Category 4 Hurricane	81	78	73	67	74
Expect Evacuation Notice in Category 4 Hurricane	93	92	86	83	88
Would Evacuate in Category 4 Hurricane*	90	92	79	88	88
Would Comply in Category 4 Hurricane	96	93	94	94	94

Table 4. Evacuation in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina and Opal

Site Built Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Evacuated in Hurricane Charley	7(N=18)	-	1	-	2
Evacuated in Hurricane Dennis	28	21	5	-	21
Evacuated in Hurricane Frances	21	18	4	2	12
Evacuated in Hurricane Ivan	27	23	6	9	16
Evacuated in Hurricane Jeanne	-	-	-	2	2
Evacuated in Hurricane Kate	27	19	-	6	12
Evacuated in Hurricane Katrina	-	-	-	9	9
Evacuated in Hurricane Opal	19	4	-	-	13

Table 5. Perceived Vulnerability, Expectation of Receiving Evacuation Notice, Evacuation Intentions in a Category 2 Hurricane

Mobile Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Flood in Category 2 Hurricane	22	15	19	16	17
Unsafe in Category 2 Hurricane	49	58	49	62	56
Expect Evacuation Notice in Category 2 Hurricane	67	73	66	66	69
Would Evacuation in Category 2 Hurricane*	73(N=11)	71	88(N=16)	74	76
Would Comply in Category 2 Hurricane	72	76	81	76	76

Table 6. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 3 Hurricane

Mobile Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Flood in Category 3 Hurricane	42	32	24	27	31
Unsafe in Category 3 Hurricane	73	79	60	77	75
Expect Evacuation Notice in Category 3 Hurricane	84	86	81	84	84
Would Evacuation in Category 3 Hurricane	82(N=11)	79	94(N=16)	82	83
Would Comply in Category 3 Hurricane	89	92	84	90	90

Table 7. Perceived Vulnerability, Expectation of Receiving an Evacuation Notice, Evacuation Intentions in a Category 4 (nearly 5) Hurricane

Mobile Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Flood in Category 4-5 Hurricane	53	51	32	36	44
Unsafe in Category 4-5 Hurricane	79	87	79	79	82
Expect Evacuation Notice in Category 4-5 Hurricane	95	94	90	92	93
Would Evacuate in Category 4-5 Hurricane	82(N=11)	89	100(N=16)	93	92
Would Comply in Category 4-5 Hurricane	90	95	97	93	94

Table 8. Evacuation in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina, and Opal

Mobile Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Evacuated in Hurricane Charley					
Evacuated in Hurricane Dennis	9(N=11)	-	23	-	20
Evacuated in Hurricane Frances	28	34	21	-	30
Evacuated in Hurricane Ivan	19	28	11	16	21
Evacuated in Hurricane Jeanne	30(N=10)	34	14	36	33
Evacuated in Hurricane Kate	-	-	-	5(N=19)	5(N=19)
Evacuated in Hurricane Katrina	59(N=17)	33(N=15)	-	29	38
Evacuated in Opal	-	-	-	24	24

Table 9a. Evacuation Notice Heard in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina and Opal

	Site-Built Homes	Mobile Homes
Evacuation Notice Heard in Hurricane Charley		
Heard Must Evacuate	1	-
Heard Should Evacuate	7	17
Heard Neither	92	83
Evacuation Notice Heard in Hurricane Dennis		
Heard Must Evacuate	9	6
Heard Should Evacuate	17	27
Heard Neither	73	67
Evacuation Notice Heard in Hurricane Frances		
Heard Must Evacuate	4	6
Heard Should Evacuate	11	19
Heard Neither	84	75
Evacuation Notice Heard in Hurricane Ivan		
Heard Must Evacuate	5	6
Heard Should Evacuate	14	21
Heard Neither	80	74
Evacuation Notice Heard in Hurricane Jeanne		
Heard Must Evacuate	-	-
Heard Should Evacuate	7	5(N=19)
Heard Neither	93	95(N=19)
Evacuation Notice Heard in Hurricane Kate		
Heard Must Evacuate	6	10
Heard Should Evacuate	15	29
Heard Neither	79	62
Evacuation Notice Heard in Hurricane Katrina		
Heard Must Evacuate	1	3
Heard Should Evacuate	8	14
Heard Neither	92	82
Evacuation Notice Heard in Hurricane Opal		
Heard Must Evacuate	7	6
Heard Should Evacuate	18	24
Heard Neither	76	70

Table 9b. Evacuation in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina and Opal Depending on Notice Heard

	Site-Built Homes	Mobile Homes
Evacuated in Hurricane Charley IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	-	-
Heard Neither	2	15
Evacuated in Hurricane Dennis IF		
Heard Must Evacuate	61	82
Heard Should Evacuate	34	47
Heard Neither	12	18
Evacuated in Hurricane Frances IF		
Heard Must Evacuate	75	82(N=11)
Heard Should Evacuate	30	31
Heard Neither	6	13
Evacuated in Hurricane Ivan IF		
Heard Must Evacuate	71	75
Heard Should Evacuate	33	58
Heard Neither	9	23
Evacuated in Hurricane Jeanne IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	14(N=14)	-
Heard Neither	1	6(N=18)
Evacuated in Hurricane Kate IF		
Heard Must Evacuate	77(N=13)	-
Heard Should Evacuate	21	44
Heard Neither	5	26
Evacuated in Hurricane Katrina IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	27	54(N=13)
Heard Neither	7	18
Evacuated in Hurricane Opal IF		
Heard Must Evacuate	-	-
Heard Should Evacuate	33	31(N=13)
Heard Neither	4	8

Table 10. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina, and Opal

Site Built Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Public Shelter in Category 2 Hurricane	7	6	13	20	12
Public Shelter in Category 3 Hurricane	7	6	13	19	12
Public Shelter in Category 4-5 Hurricane	6	6	11	20	12
Could Stay with Friend/Relative	54(N=14)	61	63(N=17)	63	61
Public Shelter in Hurricane Charley	-	-	-	-	-
Public Shelter in Hurricane Dennis	3	2	-	-	3
Public Shelter in Hurricane Frances	13	2	-	-	7
Public Shelter in Hurricane Ivan	6	6	-	29	13
Public Shelter in Hurricane Jeanne	-	-	-	-	-
Public Shelter in Hurricane Kate	17(N=12)	-	-	-	15
Public Shelter in Hurricane Katrina	-	-	-	27	27
Public Shelter in Hurricane Opal	15(N=13)	-	-	-	13(N=15)

Table 11. Public Shelter Use in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina and Opal

	Site Built Homes	Mobile Homes
Hurricane Charley	-	-
Hurricane Dennis	3	6
Hurricane Frances	7	8
Hurricane Ivan	13	11
Hurricane Jeanne	-	-
Hurricane Kate	15	4
Hurricane Katrina	27	5
Hurricane Opal	13(N=15)	-

Table 12. Intended Use of Public Shelters, Could Stay with Friends/Relatives, Actual Public Shelter Use in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina, and Opal

Mobile Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Public Shelter in Category 2 Hurricane	11	9	22	21	15
Public Shelter in Category 3 Hurricane	11	9	22	21	15
Public Shelter in Category 4-5 Hurricane	12	9	25	16	14
Could Stay with Friend/Relatives	-	56(N=10)	68(N=13)	67	60
Public Shelter in Hurricane Charley	-	-	-	-	-
Public Shelter in Hurricane Dennis	11(N=19)	10	0(N=11)	-	6
Public Shelter in Hurricane Frances	-	8	-	-	8
Public Shelter in Hurricane Ivan	-	10	-	11	11
Public Shelter in Hurricane Jeanne	-	-	-	-	-
Public Shelter in Hurricane Kate	10(N=10)	-	-	-	4
Public Shelter in Hurricane Katrina	-	-	-	5	5
Public Shelter in Hurricane Opal	-	-	-	-	-

Table 13. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Frances, Ivan, Jeanne, Kate and Katrina

Site Built Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal
Out of County in Category 2 Hurricane	84	88	74	63
Out of County in Category 3 Hurricane	85	88	76	64
Out of County in Category 3 Hurricane	85	90	80	66
Out of County in Hurricane Charley	-	-	-	-
Out of County in Hurricane Dennis	83	84	-	-
Out of County in Hurricane Frances	79	87	-	-
Out of County in Hurricane Ivan	88	79	-	40
Out of County in Hurricane Jeanne	-	-	-	-
Out of County in Hurricane Kate	50(N=12)	-	-	-
Out of County in Hurricane Katrina	-	-	-	52
Out of County in Hurricane Opal	62(N=13)	-	-	-

Table 14. Percentage of Out-of-County Evacuees in Hurricanes Charley, Dennis, Frances, Ivan, Jeanne, Kate, Katrina, and Opal

	Site Built Homes	Mobile Homes
Hurricane Charley	-	-
Hurricane Dennis	84	86
Hurricane Frances	77	72
Hurricane Ivan	69	54
Hurricane Jeanne	-	-
Hurricane Kate	42	57
Hurricane Katrina	52	18
Hurricane Opal	60(N=15)	-

Table 15. Intention to Evacuate Out-of-County, Percentage of Out-of-County Evacuees in Hurricanes Dennis, Frances and Ivan

Mobile Homes	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Out-of-County In Category 2 Hurricane	67	84	56	48	66
Out-of-County in Category 3 Hurricane	68	84	59	53	68
Out-of-County in Category 4 -5 Hurricane	70	85	62	61	72
Out of County in Hurricane Charley	-	-	-	-	-
Out of County in Hurricane Dennis	82(N=17)	87	-	-	86
Out of County in Hurricane Frances	-	79	-	-	72
Out of County in Hurricane Ivan	-	77	-	33	54
Out of County in Hurricane Jeanne	-	-	-	-	-
Out of County in Hurricane Kate	80(N=10)	-	-	-	57
Out of County in Hurricane Katrina	-	-	-	18	18
Out of County in Hurricane Opal	-	-	-	-	-

Table 16. Percent of Vehicles Available to Evacuees Intend to Use in Evacuation

Vehicle Use	Cat 1	Cat 2-5	Non-surge	Non-coastal	TOTAL
Site Built Homes	79	78	75	81	79
Mobile Homes	78	77	75	74	76

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